383 MANHATTAN AVENUE

BROOKLYN, NEW YORK

Remedial Investigation Report

OER Project Number: 16EHAZ220K

Prepared for:

Superior Homes

191-15 Jamaica Avenue, Hollis, New York 11423

yaniv.levy@hotmail.com

Prepared by:

Hydro Tech Environmental, Corp.

15 Ocean Avenue, 2nd Floor, Brooklyn, NY 11225

andrew@hydrotechenvironmental.com

718-636-0800

February/2016

REMEDIAL INVESTIGATION REPORT

TABLE OF CONTENTS

FIGURES 3
LIST OF ACRONYMS 6
CERTIFICATION 7
EXECUTIVE SUMMARY 8
REMEDIAL INVESTIGATION REPORT 12
1.0 SITE BACKGROUND 12
1.1 Site Location and Current Usage 12
1.2 Proposed Redevelopment Plan 12
1.3 Description of Surrounding Property 12
2.0 SITE HISTORY 14
2.1 Past Uses and Ownership 14
2.2 Previous Investigations 14
2.3 Site Inspection 14
2.4 Areas of Concern 14
3.0 PROJECT MANAGEMENT 16
3.1 Project Organization 16
3.2 Health and Safety 16
3.3 Materials Management 16
4.0 REMEDIAL INVESTIGATION ACTIVITIES 17
4.1 Geophysical Investigation 17
4.2 Borings and Monitoring Wells 18
4.3 Sample Collection and Chemical Analysis 19
5.0 ENVIRONMENTAL EVALUATION 24
5.1 Geological and Hydrogeological Conditions 24
5.2 Soil Chemistry 24
5.3 Groundwater Chemistry 26
5.4 Soil Vapor Chemistry 26
5.5 Prior Activity 26
5.6 Impediments to Remedial Action 26

FIGURES

Figure 1: Site Location Map
Figure 2: Site Boundary Map
Figure 3: Proposed Redevelopment Plan
Figure 4: Land Use Map
Figure 5: Map of Areas of Concern
Figure 6: Locations of Soil Borings, Monitoring Wells and Soil Vapor Samples
Figure 7: Groundwater Flow Contour Diagram
Figure 8: Map of VOCs in Soil
Figure 9: Map of SVOCs in Soil
Figure 10: Map of Pesticides and PCBs in Soil
Figure 11: Map of Metals in Soil
Figure 12: Map of VOCs in Groundwater
Figure 13: Map of SVOCs in Groundwater
Figure 14: Map of Pesticides and PCBs in Groundwater
Figure 15: Map of Dissolved Metals in Groundwater
Figure 16: Map of Soil Vapors

TABLES

Table 1: Soil Samples Analytical Results for VOCs

Table 2: Soil Samples Analytical Results for SVOCs

Table 3: Soil Samples Analytical Results for Pesticides and PCBs

Table 4: Soil Samples Analytical Results for Metals

Table 5: Groundwater Samples Analytical Results for VOCs

Table 6: Groundwater Samples Analytical Results for SVOCs

Table 7: Groundwater Samples Analytical Results for Pesticides and PCBs

Table 8: Groundwater Samples Analytical Results for Metals

Table 9: Soil Vapor Analytical Results

APPENDICES

Appendix A: Previous Investigation (Phase I ESA by Hydro Tech Environmental, Corp.)

Appendix B: Photographs

Appendix C: GPR Report

Appendix D: Soil Boring Geologic Logs

Appendix E: Monitoring Well Construction Logs

Appendix F: Well Purging and Sampling Logs

Appendix G: Soil Vapor Sampling Logs

Appendix H: Laboratory Data Deliverables for Soil Analytical Data

Appendix I: Laboratory Data Deliverables for Groundwater Analytical Data

Appendix J: Laboratory Data Deliverables for Soil Vapor Analytical Data

LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, Mark E. Robbins, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 383 Manhattan Avenue Site, (NYC VCP Site No. 16EHAZ220K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

Mark E. Robbins	2/18/16	Mark E. Robbins (AI)
Qualified Environmental Professional	Date	Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Site is located at 383 Manhattan Avenue in the Williamsburg section of Brooklyn, New York and is identified as Block 2738 and Lot 24 on the New York City Tax Map. Figure 1 shows the Site location. The Site is 2,500-square feet and is bounded by a vacant lot to the north, 2.5-story residential building to the south, Manhattan Avenue to the east, and 3-story residential building to the west. A map of the site boundary is shown in Figure 2. Currently, the Site is vacant.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new 4-story multi-family residential building. The building footprint covers 1,375 square feet of the 2,500 square foot lot and includes a full basement. The basement will require approximately 9 feet of excavation and the remaining 1,125 square feet of the western portion of the Site is proposed as a landscaped yard. The water table was encountered at approximately 5 feet below grade surface (bgs). Layout of the proposed site development is presented in **Figure 3**. The current zoning designation is M1-2/R6. The Subject Property is considered residential (See **Figure 4**). The proposed use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

Based upon the review of the Fire Insurance Maps and Regulatory Agency documents from the Phase I Environmental Site Assessment (ESA) Reports prepared by Hydro Tech Environmental Corp. in December 17, 2015 a Site history was established. The Subject Property was developed with its most recent structure prior to 1887. From 1887 to at least 1951, the Subject Property was also developed with approximately 2 to 4 ancillary structures and 1 additional residential structure located in the center and western portion of the property. The additional structures were razed sometime between 1951 and 1965.

Summary of the Work Performed under the Remedial Investigation

The scope of work implemented by Hydro Tech Environmental, Corp. included:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Conducted a Ground Penetrating Radar (GPR) survey of the Site to identify subsurface structures (i.e. tanks, building foundations, utilities, etc.);
3. Installed four (4) soil borings across the entire project Site, and collected eight (8) soil samples for chemical analysis from the soil borings to evaluate soil quality;
4. Installed three (3) groundwater monitoring wells throughout the Site to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;
5. Installed three (3) soil vapor probes around Site perimeter and collected three (3) samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is 16 feet.
2. Depth to groundwater is approximately 5 feet at the Site.
3. Groundwater flow is generally from the north-northeast to the south-southwest beneath the Site.
4. Bedrock was not encountered to a depth of 16 feet at the Site.
5. The stratigraphy of the site, from the surface down, consists of approximately 2 feet of organic sandy loam underlain by approximately 6 feet of brown medium-grained silty sand.
6. Soil/fill samples results were compared to New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives and Restricted Residential Use Soil Cleanup Objectives (SCOs) as presented in 6NYCRR Part 375-6.8. Soil/fill samples showed no VOCs or PCBs detected above their respective laboratory MDLs. SVOCs, specifically PAHs, exceeding their respective Track 2 Restricted Residential SCOs were detected in the shallow and deep soil samples collected from SP-1

and include benzo(a)pyrene (max. 3.3 mg/Kg), benzo(b)fluoranthene (max. 3.3 mg/Kg), benzo(k)fluoranthene (max. 3.5 mg/Kg), chrysene (max. 4.5 mg/Kg), dibenzo(a,h)anthracene (max. 0.41 mg/Kg) and indeno(1,2,3-cd)pyrene (max. 1.7 mg/Kg). Numerous pesticides, including 4,4'-DDD (max. 0.028 mg/Kg), 4,4'-DDE (max. 0.038 mg/Kg), 4,4'-DDT (max. 0.23 mg/Kg) and dieldrin (max. 0.047 mg/Kg), were detected at concentrations exceeding their Track 1 Unrestricted Use SCO of 0.0033 mg/Kg. Dieldrin also exceeded Restricted Residential SCO. Metals chromium (max. 44.7 mg/Kg), nickel (max. 36.5 mg/Kg) and silver (max. 2.22 mg/Kg), were detected at concentrations above their respective Track 1 Unrestricted Use SCOs in shallow and deep soil samples. Metals arsenic (max. 24.3 mg/Kg), barium (max. 2,480 mg/Kg), cadmium (max. 6.36 mg/Kg), copper (max. 513 mg/Kg), lead (max. 4,160 mg/Kg), mercury (max. 4.73 mg/Kg) and zinc (max. 3,890 mg/Kg), were detected at concentrations exceeding their respective Track 2 Restricted Residential SCOs in shallow and deep soil samples collected at the Site. In addition, TCLP was analyzed on soil samples that exhibited metal concentrations in excess of 20 times their Resource Conservation and Recovery Act (RCRA) toxicity limits. No TCLP soil samples were detected at concentrations exceeding their respective RCRA toxicity limit. Highest concentrations of SVOCs, pesticides and metals were detected in one soil boring SP-1, indicating a hotspot area in proposed rear yard area.

7. Groundwater samples collected during the RI reported six (6) VOCs elevated above their respective New York State 6 NYCRR Part 703.5 Groundwater Quality Standards (GQS) in monitoring well MW-3. VOCs reported in MW-3 include, 2,4,5-trichlorophenol (0.17 mg/L), 2,4-dichlorophenol (0.13 mg/L), 2,4-dinitrophenol (0.14 mg/L), 2,6-dinitrotoluene (0.15 mg/L), 3,3'-dichlorobenzidine (0.09 mg/L) and 4-chloro-3-methylphenol (1.4 mg/L). No SVOCs or PCBs were detected at concentrations above their respective laboratory MDLs in groundwater samples collected during the RI. One pesticide, chlordane (0.61 mg/L) was detected above its GQS in monitoring well MW-3. Several metals were identified, but only antimony (max. 0.009 mg/L) and manganese (max. 0.533 mg/L), were detected in all monitoring wells at concentrations exceeding their respective GQS.

8. Soil vapor samples collected during the RI were compared to compounds listed in Table 3.1 Air Guideline Values derived by the NYSDOH located in the New York State

Department of Health Final Guidance for Evaluating Soil Vapor Intrusion dated October 2006. Soil vapor collected during the RI showed low levels of petroleum-related VOCs (BTEX), ranging from 2.92 µg/m^3 to 39.5 µg/m^3. Ethanol was the highest detected compound with a concentration of 571 µg/m^3 in SV-1. Chlorinated VOCs were detected at trace concentrations. Tetrachloroethylene (PCE) was detected at a maximum concentration of 0.66 µg/m^3 and trichloroethylene was detected at a maximum concentration of 0.26 µg/m^3. Concentrations of chlorinated PCE and TCE were below the monitoring and mitigation level ranges established within the NYSDOH soil vapor guidance matrix.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Superior Homes has enrolled in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.057-acre site located at 383 Manhattan Avenue in the Williamsburg section of Brooklyn, New York. Residential use is proposed for the property. The RI work was performed between January 11, 2016 and January 12, 2016. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located at 383 Manhattan Avenue in the Williamsburg section of Brooklyn, New York and is identified as Block 2738 and Lot 24 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 2,500-square feet and is bounded by a vacant lot to the north, 2.5-story residential building to the south, Manhattan Avenue to the east, and 3-story residential building to the west. A map of the site boundary is shown in **Figure 2**. Currently, the Site is vacant.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a new 4-story multi-family residential building. The building footprint covers 1,375 square feet of the 2,500 square foot lot and includes a full basement. The basement will require approximately 9 feet of excavation and the remaining 1,125 square feet of the western portion of the Site is proposed as a landscaped yard (excavated to 2 feet below grade). The water table was encountered at approximately 5 feet below grade surface (bgs). Layout of the proposed site development is presented in **Figure 3**. The current zoning designation is M1-2/R6. The Subject Property is considered residential (See **Figure 4**). The proposed use is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

This site is located in a neighborhood characterized by multi-story residential buildings and mixed use commercial/industrial buildings. The adjoining properties consist of vacant and multi-

story residential buildings. Properties located within a ¼-mile radius of the Site are zoned R6, R6B and M1-2 (Residential district characterized by multi-story industrial buildings with residential and retail development). Within a 500-foot radius of the Site, there is one sensitive receptor: the School Settlement Association, located south of the Subject Property. **Figure 4** shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Based upon the review of the Fire Insurance Maps and Regulatory Agency documents from the Phase I Environmental Site Assessment (ESA) Reports prepared by Hydro Tech Environmental Corp. in December 17, 2015 a Site history was established. The Subject Property was developed with its most recent structure prior to 1887. From 1887 to at least 1951, the Subject Property was also developed with approximately 2 to 4 ancillary structures and 1 additional residential structure located in the center and western portion of the property. The additional structures were razed sometime between 1951 and 1965.

2.2 Previous Investigations

Previous investigations performed at the Site include the following:

- *Phase I Environmental Site Assessment*, December 17, 2015, Hydro Tech Environmental, Corp.

2.3 Site Inspection

Ms. Erica Johnston of Hydro Tech performed the site inspection on December 9, 2015. The reconnaissance included a visual inspection of the Site. At the time of the inspection, the Site consisted of a 2.5 story unoccupied residential building. The Subject Property was reportedly not connected to any utility services due to ongoing demolition and redevelopment activities. It is unknown where utilities historically entered the Subject Property. The building was reportedly heated by a natural gas-fired boiler. The building contained a basement and was located in the east portion of the Subject Property, along Manhattan Avenue. Access to the Subject Property is via Manhattan Avenue to the east. An interview was conducted to Mr. Yaniv Levy which is a managing member. He reported that subsequent to the Site Inspection conducted on December 9, 2015, the Subject Property structure was completely demolished in preparation for future redevelopment.

2.4 Areas of Concern

The AOCs identified for this site include:

1. The presence of a Hazardous Materials E-Designation on the Subject Property.

Phase 1 Report is presented in **Appendix A**. A map showing areas of concern is presented in **Figure 5**.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Mark E. Robbins.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

The scope of work implemented by Hydro Tech Environmental, Corp included:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Conducted a Ground Penetrating Radar (GPR) survey of the Site to identify subsurface structures (i.e. tanks, building foundations, utilities, etc.);
3. Installed four (4) soil borings across the entire project Site, and collected eight (8) soil samples for chemical analysis from the soil borings to evaluate soil quality;
4. Installed three (3) groundwater monitoring wells throughout the Site to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;
5. Installed three (3) soil vapor probes around Site perimeter and collected three (3) samples for chemical analysis.

Photographs were taken during RI Activities and are provided in **Appendix B.**

4.1 Geophysical Investigation

The survey was performed over a grid pattern that was determined immediately prior to the survey. The GPR operator wheeled the antenna over the predetermined grid. The GPR takes one "scan" per set unit. The number of scans per unit is based upon the estimated size of targets. As each scan is performed, the antenna emits specific radar amplitude into the subsurface.
The amplitude of the radar reflected back to the antenna is based upon the differences in the dielectric constants of the subsurface materials. The differences in amplitude obtained during each scan are graphically displayed on the Control Unit, which are then interpreted by the GPR operator. Additional interpretations are then conducted in the office using computer software.

The GPR survey was performed successfully across the Site. No anomalies indicative of a suspect UST were identified during the GPR survey. **Appendix C** includes the GPR summary report.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

A total of four soil probes designated SP-1 to SP-4 were installed and sampled at the Site. SP-1 was installed in the northwestern portion of the property in the backyard to a depth of 4 feet. SP-2 was installed central portion of the property at the concrete landing to a depth of 4 feet. SP-3 and SP-4 were installed to a depth of 8 feet below grade in the eastern portion of the Site where the proposed cellar is located. All soil probes were installed utilizing Hydro Tech's fleet of Geoprobe® fitted with Geoprobe® tooling and sampling equipment. Soil samples were collected utilizing a 4-foot long Macro Core sampler fitted with dedicated acetate liners. Each Macro Core was cut open and immediately screened with a Photo Ionization Detector (PID) for VOCs, prior to collecting the required samples for laboratory analysis. The soil was screened and characterized at two-foot intervals.

Boring logs prepared by a geologist are attached in **Appendix D**. A map showing the location of soil borings is shown in **Figure 6.** In general, the soil encountered consists of organic sandy loam underlain by brown fine to medium grained silty sand from zero to 8 feet below grade. Groundwater was encountered in soil probes at approximately 5 feet below grade.

No organic vapor readings were detected during the soil characterization.

Groundwater Monitoring Well Construction

Three (3) groundwater monitoring wells (MW-1, MW-2, MW-3) were installed during the RI. The monitoring wells were installed utilizing Hydro Tech's fleet of Geoprobe® fitted with Geoprobe® tooling and sampling equipment. The total depth of the monitoring wells is 16 feet below grade. The monitoring wells were constructed of 1-inch diameter PVC. The well screens consist of 0.020-inch slots that extend 10 feet below the water table interface. The remaining portion of each of these wells consists of a riser.

Monitoring well construction logs are shown in **Appendix E**. Monitoring well locations are shown in **Figure 6**.

Survey

Soil borings, monitoring wells, and soil gas sampling locations were located by measuring to permanent site features.

Water Level Measurement

Prior to groundwater purging and sampling of the monitoring wells, the wells were gauged for the presence of Light, Non-Aqueous Phase Liquid (LNAPL) and also monitored to determine the depth to water. The well gauging and monitoring was performed utilizing a Solinst® 122 Oil/Water Interface Probe (Interface Probe). The Interface Probe can measure depths to water to 0.01 inch. Well gauging and monitoring was performed in the wells from the northern portion of the casing top. LNAPL was not identified in the monitoring wells during the well gauging exercise.

Groundwater was encountered at approximately 5 feet below grade at the Site. The groundwater flow contour diagram is shown in **Figure 7**. Water level data is included in **Appendix F**.

Soil Vapor

Three (3) soil vapor probes, designated SV-1 through SV-3, were installed to a depth of approximately 4 feet below grade. The soil vapor probes were installed in accordance with the NYSDOH guidance for evaluating soil vapor intrusion dated October 2006. Each soil vapor sampling point consists of a stainless steel screen, or implant, fitted with dedicated polyethylene tubing. Each of the implants was of 1 ½-inch diameter. Glass beads were poured into the hole to fully encompass the screen implant and the hole was sealed with bentonite and quick dry-lock non-VOC quick set cement. A map showing the locations of soil vapor implants is shown in **Figure 6**.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all areas of concern and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public

health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Eight (8) soil samples were collected for chemical analysis during this RI; these include four (4) samples from zero to 2 feet below grade, two (2) samples from 2 to 4 feet below grade and two (2) samples from 6 to 8 feet below grade. Samples were collected utilizing a 4-foot long Macro Core sampler fitted with dedicated acetate liners.

All samples were properly handled and placed into the pre-cleaned, appropriately labeled, laboratory supplied containers. One trip blank was submitted to the laboratory. The samples were placed in a cooler filled with ice and maintained at a maximum of 4 degrees Celsius. All samples were transmitted under proper chain of custody procedures to a New York State Department of Health ELAP-certified laboratory for confirmatory laboratory analyses. All soil samples were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, pesticides/PCBs by EPA Methods 8081/8082, target analyte list (TAL) metals, and Toxicity Characteristic Leaching Procedure (TCLP) metals via EPA Method 1311. The laboratory did not report any irregularities with respect to their internal Quality Assurance/Quality Control.

Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in **Tables 1** through **4**. **Figure 6** shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Three (3) groundwater samples were collected for chemical analysis during this RI. Groundwater samples from the monitoring wells were collected using the low stress (low flow) purging and sampling procedures. The low flow was accomplished with a Solinst Bladder Pump and the continuous flow was monitored with a Horiba U-52 water quality meter until the readings had stabilized.

The water samples were collected in laboratory-supplied jars, properly labeled with the sample number, the date and time of sampling, the analytical requirements, and then placed on ice for the duration of the sampling and transport to the laboratory. A chain of custody form was

completed at the time of sampling and maintained until disposition of the samples at the ELAP certified and accredited laboratory. The groundwater samples were analyzed for TCL VOCs, TCL SVOCs, pesticides, PCBs, dissolved and total TAL metals.

Groundwater sample collection data is reported in **Tables 5** through **8**. Sampling logs with information on purging and sampling of groundwater monitor wells is included in **Appendix F**. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

Three (3) soil vapor probes were installed and three (3) soil vapor samples were collected for chemical analysis during this RI. Soil vapor sample collection data is reported in **Table 9**. Soil vapor sampling logs are included in **Appendix G**. Methodologies used for soil vapor assessment conform to the NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.

Dedicated tubing was used for each soil vapor probe. A soil vapor sample was collected from each vapor probe utilizing a 6 liter pre-cleaned, passivated, evacuated whole air Summa® Canister. In order to insure the integrity of the borehole seal and to verify that ambient air is not inadvertently drawn into the sample, a tracer gas, Helium, was used to enrich the atmosphere in the immediate vicinity of the sampling location. Plastic sheeting was used to keep the tracer gas in contact with the soil vapor probe during the sampling while continuously monitoring air drawn from the implant with a helium detector (Dielectric Model MGD-2002, Multi-gas Detector). Helium detector readings did not exceed zero ppm indicating Helium was not detected. Following verification that the surface seal was tight and prior to soil vapor sampling, approximately 0.3 ml of air was purged out of all vapor points utilizing a syringe.

The soil vapor probes were connected to ¼-inch outer diameter inert Teflon-lined polyethylene tubing which extended above ground surface to allow for purging and sampling. The Summa Canisters were calibrated for 2 hours and the soil vapor sampling was run on each canister for the duration of 2 hours. The initial vacuum (inches of mercury) and start time was recorded immediately after opening each Summa Canister. After the sampling was complete, the final vacuum and stop time was recorded. After the soil vapor sampling, each Summa was labeled and sent to a laboratory certified to perform air analysis in New York State and analyzed for VOCs via EPA TO-15.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Mark E. Robbins.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and were Phoenix Environmental Laboratories Inc.
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); • TCLP Metals by EPA Method 1311 Groundwater analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); Soil vapor analytical methods: • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in **Tables 1** through **9.** Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in **Appendices H** through **J.**

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Geological and Hydrogeological Conditions

The Site is located in the northwest portion of Brooklyn, New York. The elevation of the Site is approximately 16 feet above mean sea level (USGS 7 ½-Minute Brooklyn, New York Quadrangle, 2003).

Stratigraphy

The stratigraphy of the Site is classified as organic sandy loam underlain by brown fine to medium grained silty sand from zero to 8 feet below grade. Bedrock was not encountered to a depth of 16 feet below grade.

Hydrogeology

Water level data for all monitoring wells is included in **Appendix F**. The depth to water ranges from 4.29 feet to 4.52 feet. A map of groundwater level elevations with groundwater contours and inferred flow lines is shown in **Figure 7**. Groundwater flow is towards the south-southwest.

5.2 Soil Chemistry

Soil/fill samples collected during the RI showed no VOCs or PCBs detected above their respective laboratory MDLs. SVOCs, specifically PAHs, exceeding their respective Track 2 Restricted Residential SCOs were detected in the shallow and deep soil samples collected from SP-1 and include benzo(a)pyrene (max. 3.3 mg/Kg), benzo(b)fluoranthene (max. 3.3 mg/Kg), benzo(k)fluoranthene (max. 3.5 mg/Kg), chrysene (max. 4.5 mg/Kg), dibenzo(a,h)anthracene (max. 0.41 mg/Kg) and indeno(1,2,3-cd)pyrene (max. 1.7 mg/Kg). Numerous pesticides, including 4,4'-DDD (max. 0.028 mg/Kg), 4,4'-DDE (max. 0.038 mg/Kg) and 4,4'-DDT (max. 0.23 mg/Kg), were detected at concentrations exceeding their Track 1 Unrestricted Use SCO of 0.0033 mg/Kg in shallow and deep soils site-wide. One pesticide, dieldrin (max. 0.047 mg/Kg), was detected at concentrations above its Track 2 Restricted Residential SCO. Metals, chromium (max. 44.7 mg/Kg), nickel (max. 36.5 mg/Kg) and silver (max. 2.22 mg/Kg), were detected at concentrations above their respective Track 1 Unrestricted Use SCOs in shallow and deep soil samples. Metals, arsenic (max. 24.3 mg/Kg), barium (max. 2,480 mg/Kg), cadmium (max. 6.36 mg/Kg), copper (max. 513 mg/Kg), lead (max. 4,160 mg/Kg), mercury (max. 4.73 mg/Kg) and zinc (max. 3,890 mg/Kg), were detected at concentrations exceeding their respective Track 2

Restricted Residential SCOs in shallow and deep soil samples collected at the Site. In addition, TCLP was analyzed on soil samples that exhibited metal concentrations in excess of 20 times their Resource Conservation and Recovery Act (RCRA) toxicity limits. TCLP samples analyzed include TCLP barium (max. 0.44 milligrams per liter [mg/L]), TCLP lead (max. 3.08 mg/L) and TCLP mercury (not detected above respective laboratory MDL). No TCLP soil samples were detected at concentrations exceeding their respective RCRA toxicity limit.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in **Tables 1** through **4**. **Figures 8** through **11** show the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 1 and Track 2 Soil Cleanup Objectives. The soil sample laboratory data package is provided in **Appendix H**.

5.3 Groundwater Chemistry

Groundwater samples collected during the RI reported six (6) VOCs elevated above their respective New York State 6 NYCRR Part 703.5 Groundwater Quality Standards (GQS) in monitoring well MW-3. VOCs reported in MW-3 include, 2,4,5-trichlorophenol (0.17 mg/L), 2,4-dichlorophenol (0.13 mg/L), 2,4-dinitrophenol (0.14 mg/L), 2,6-dinitrotoluene (0.15 mg/L), 3,3'-dichlorobenzidine (0.09 mg/L) and 4-chloro-3-methylphenol (1.4 mg/L). No SVOCs or PCBs were detected at concentrations above their respective laboratory MDLs in groundwater samples collected during the RI. One pesticide, chlordane (0.61 mg/L) was detected above its GQS in monitoring well MW-3. Dissolved metals, antimony (max. 0.009 mg/L) and manganese (max. 0.533 mg/L), were detected in all monitoring wells at concentrations exceeding their respective GQS.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in **Tables 5** through **8**. Exceedance of applicable groundwater standards are shown.

Figures 12 through **15** show the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards. The groundwater sample laboratory data package is provided in **Appendix I**.

5.4 Soil Vapor Chemistry

Soil vapor results collected during the RI were compared to compounds listed in Table 3.1 Air Guideline Values derived by the NYSDOH located in the New York State Department of Health Final Guidance for Evaluating Soil Vapor Intrusion dated October 2006. Soil vapor collected during the RI shows low levels of petroleum-related VOCs (BTEX). The petroleum related compounds ranged from 2.92 $\mu g/m^3$ to 39.5 $\mu g/m^3$. Ethanol was the highest detected compound with a concentration of 571 $\mu g/m^3$ in SV-1. Chlorinated VOCs were not detected at significant concentrations. Tetrachloroethylene (PCE) was detected at a maximum concentration of 0.66 $\mu g/m^3$ in SV-1 and trichloroethylene was detected at a maximum concentration of 0.26 $\mu g/m^3$, also in SV-1.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in **Table 9**.

Figure 16 shows the location and posts the values for soil vapor samples with detected concentrations. The soil vapor sample laboratory data package is provided in **Appendix J**.

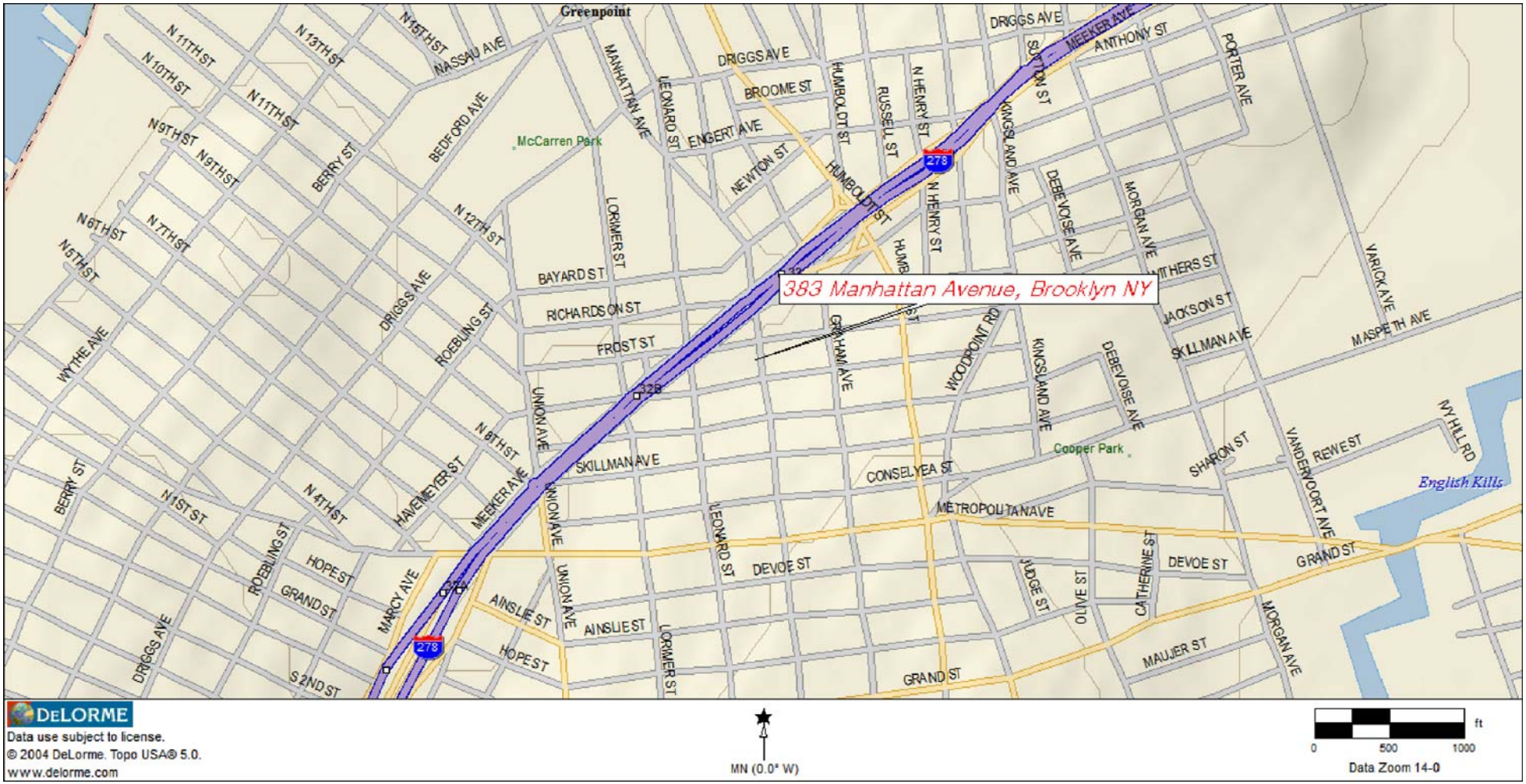
5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.6 Impediments to Remedial Action

There are no known impediments to remedial action at this property.

Figures



HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

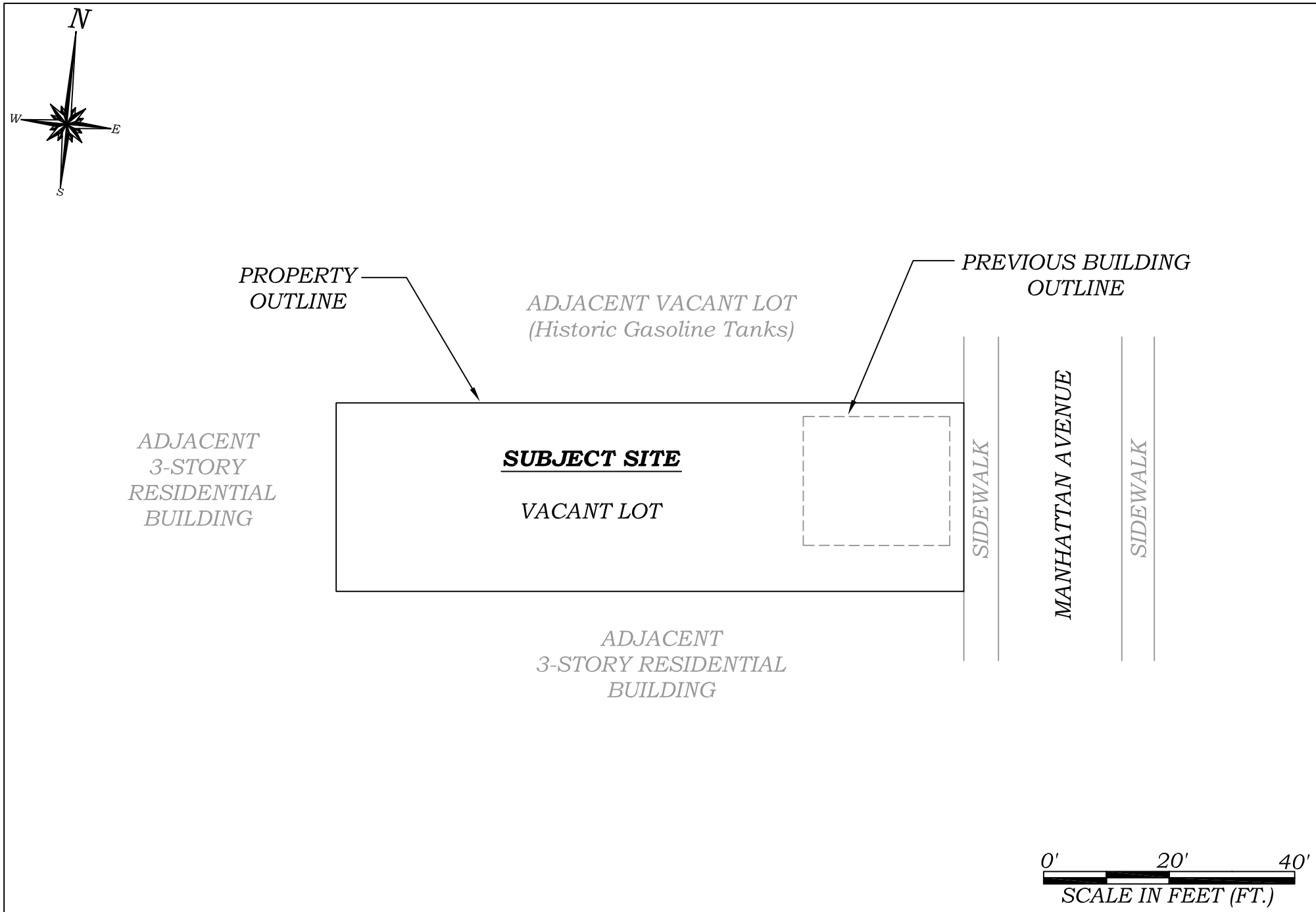
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 12/18/15
Scale: AS NOTED

TITLE:

FIGURE 1: SITE LOCATION MAP



HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

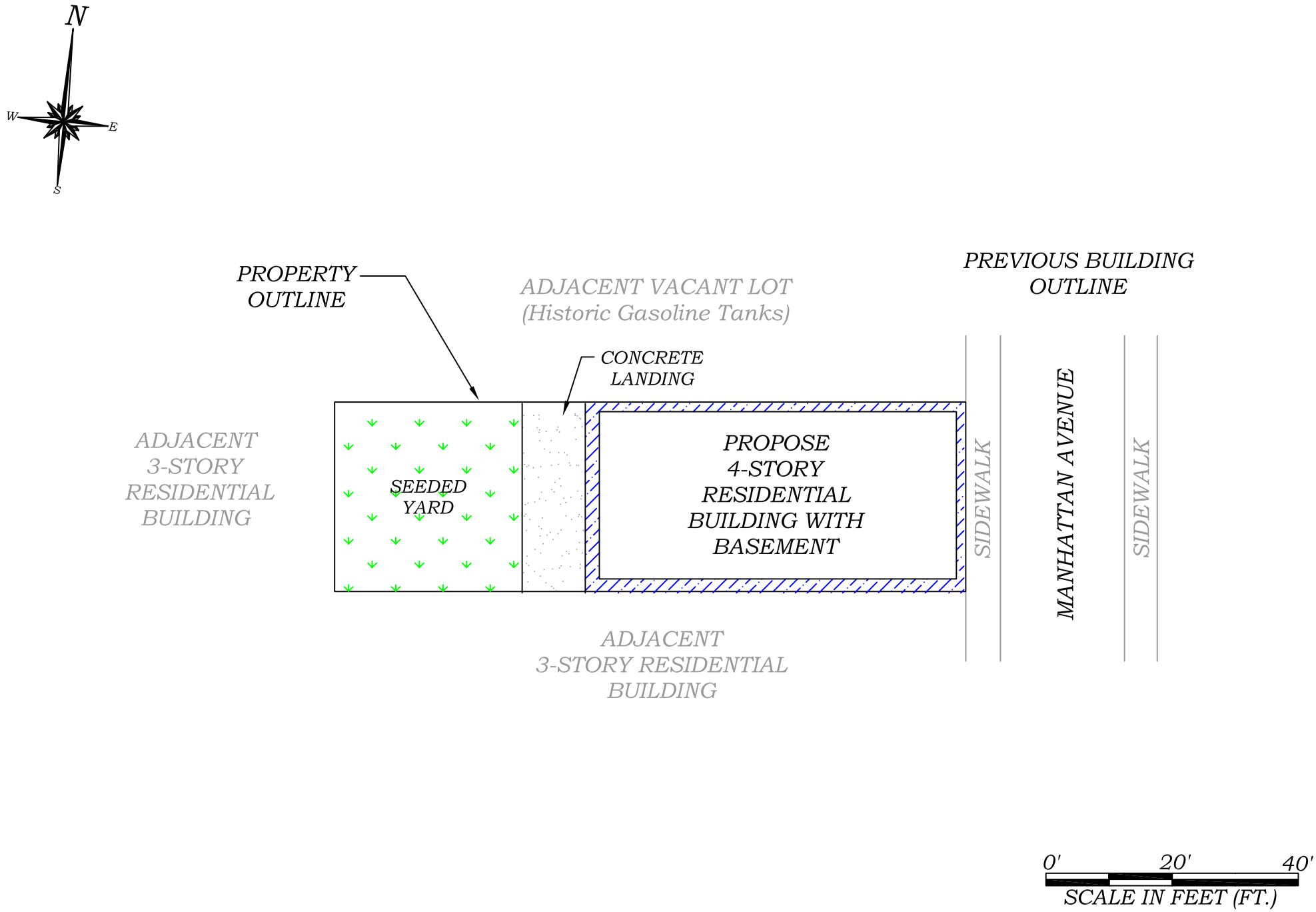
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 12/18/15
Scale: AS NOTED

TITLE:

FIGURE 2: SITE BOUNDARY MAP



HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

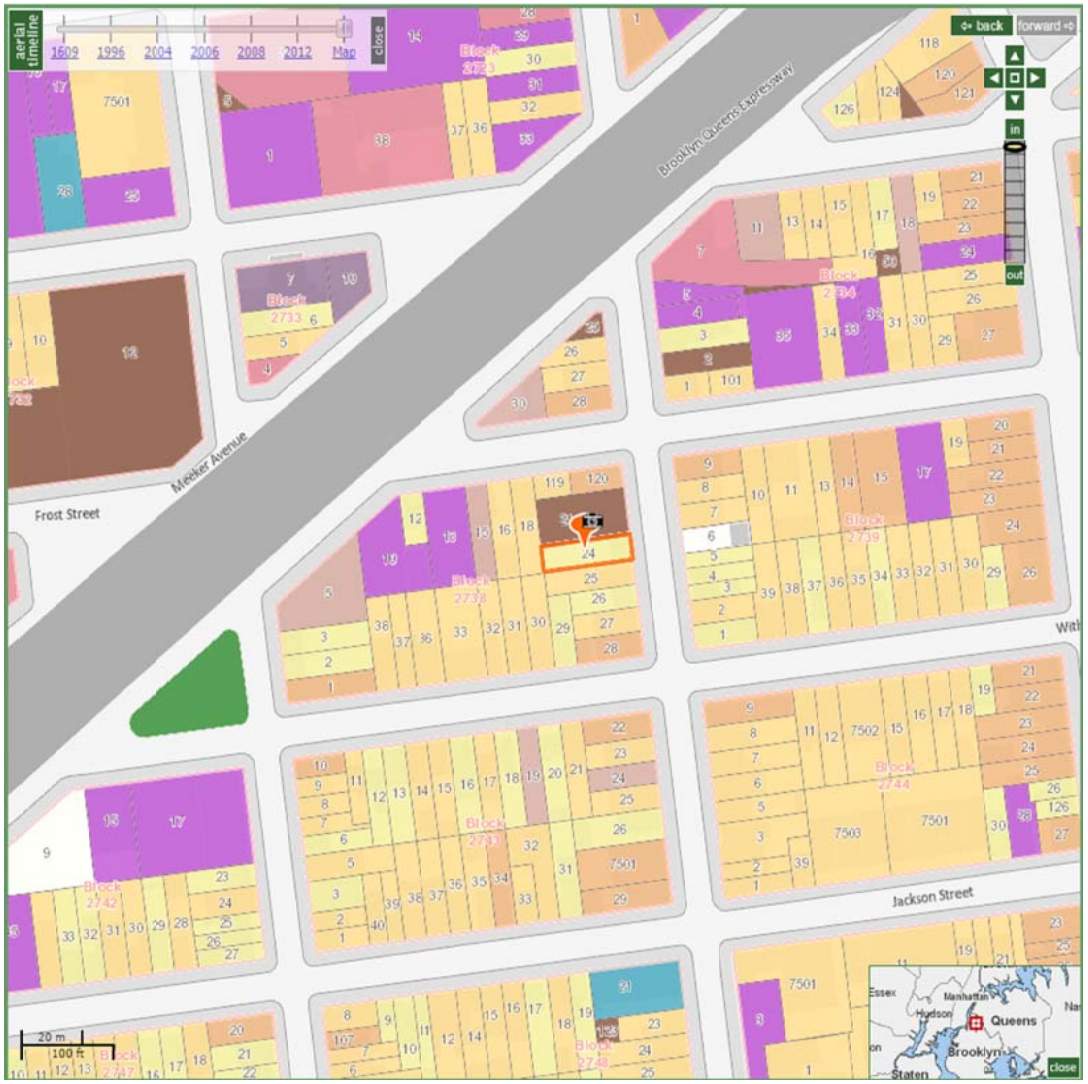
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 12/18/15
Scale: AS NOTED

TITLE:

FIGURE 3: PROPOSED REDEVELOPMENT PLAN



Land Use

All land use categories

2003 2005 2007 2009 2014

- 1 & 2 Family Residential
- Multi-family Residential
- Mixed Use
- Open space & outdoor recreation
- Commercial
- Institutions
- Industrial
- Parking
- Transportation / Utilities
- Vacant Lots

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

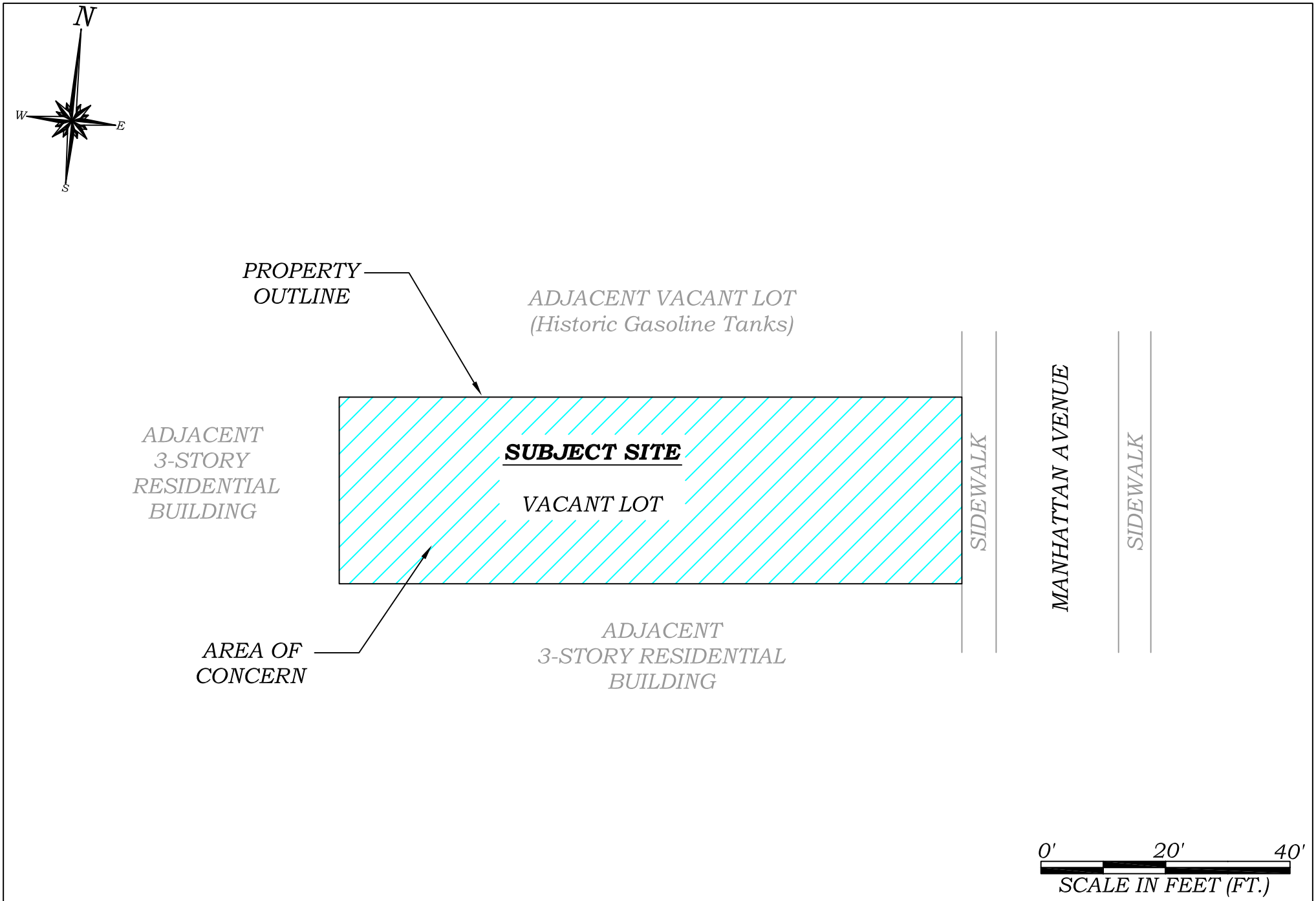
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 4: LAND USE MAP



HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

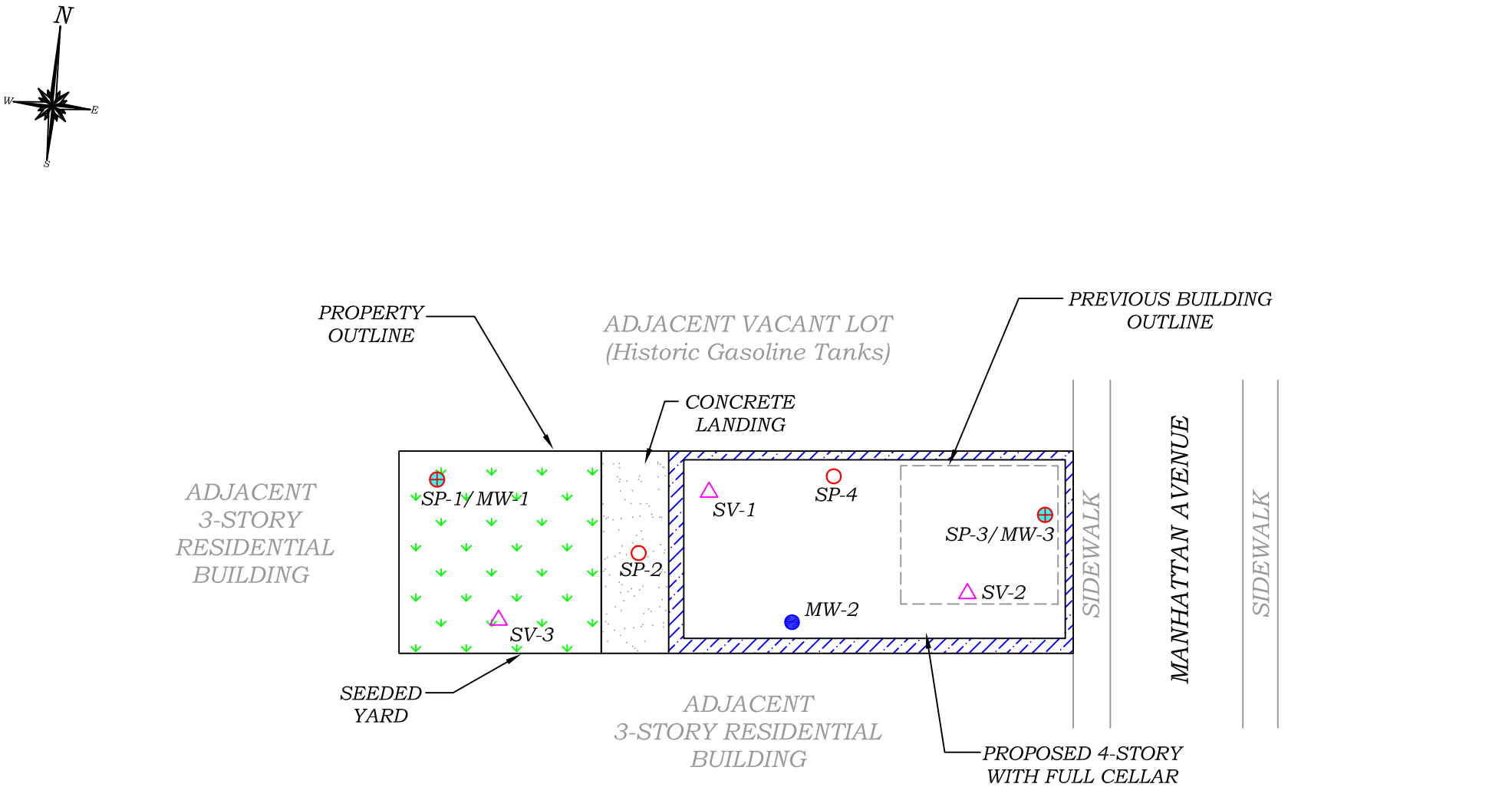
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 5: MAP OF AREAS OF CONCERN



LEGEND:

- ○ SOIL PROBE LOCATIONS (SP)
- ● MONITORING WELL LOCATIONS (MW)
- ⊕ SOIL PROBE / MONITORING WELL LOCATIONS (SP/MW)
- △ SOIL VAPOR LOCATIONS (SV)

0' 20' 40'
SCALE IN FEET (FT.)

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

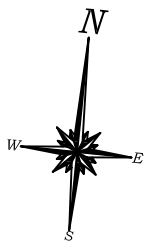
www.hydrotechenvironmental.com

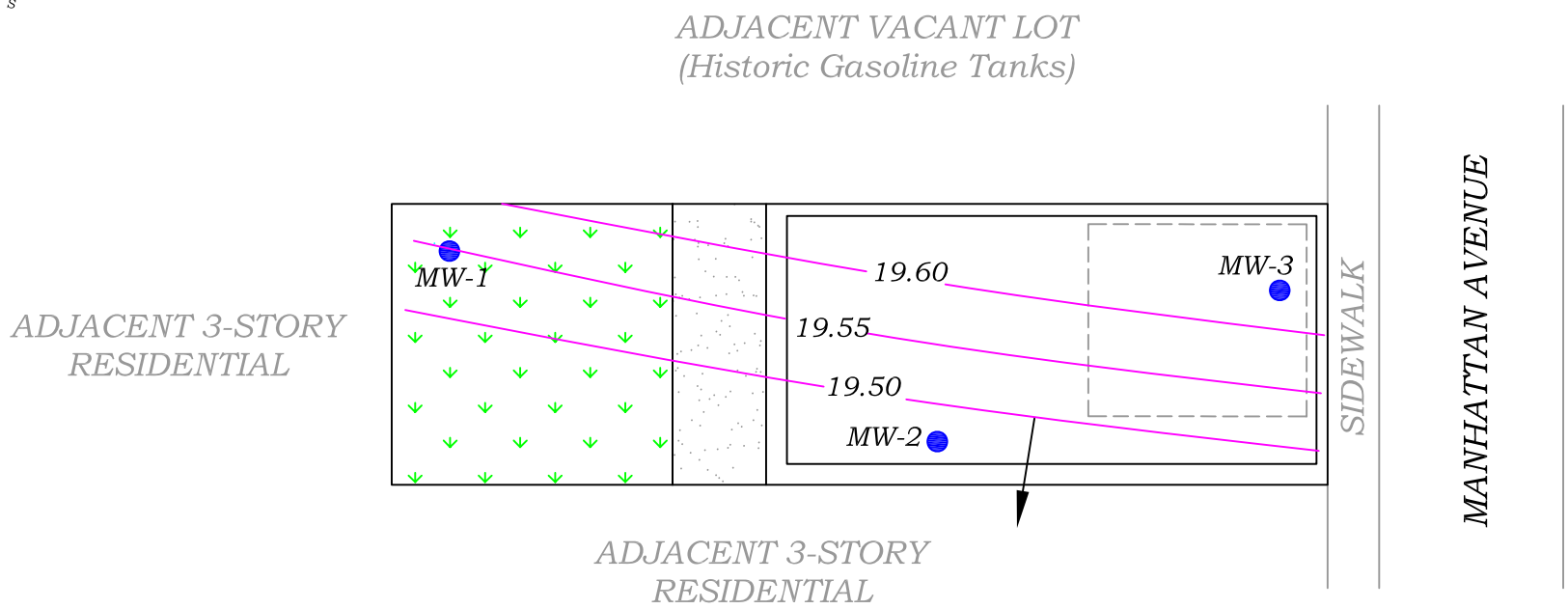
383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 6: LOCATION OF SOIL BORINGS, MONITORING WELLS AND SOIL VAPOR SAMPLES





LEGEND:

- MONITORING WELL LOCATIONS (MW)
- CONTOUR LINES
- C.I. CONTOUR INTERVAL

C.I. = 0.5 FEET	
Monitoring Well IDs	Groundwater Elevations
MW-1	19.56
MW-2	19.35
MW-3	19.66

0' 20' 40'
SCALE IN FEET (FT.)

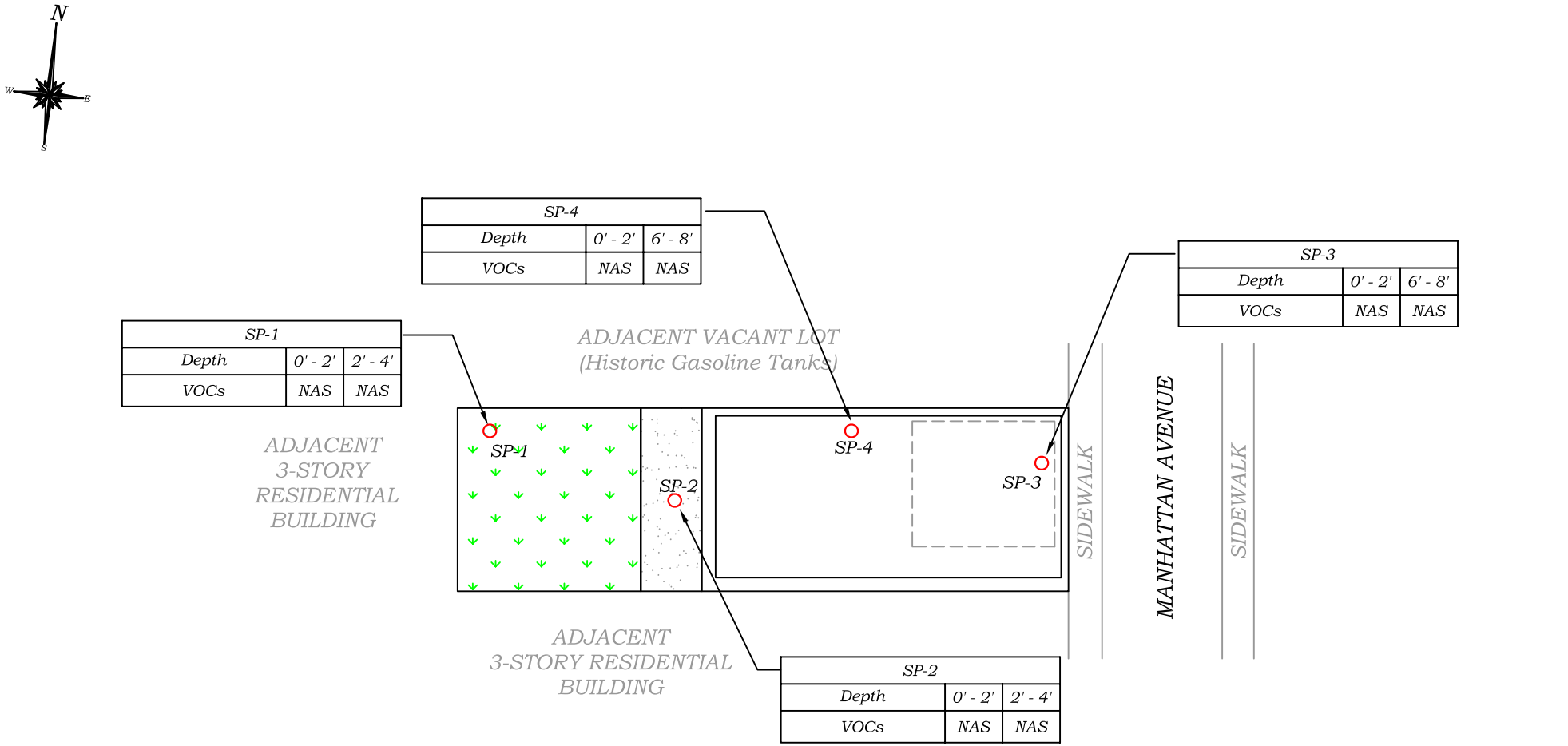
HYDRO TECH ENVIRONMENTAL CORP.
MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877
NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 7: GROUNDWATER FLOW CONTOUR DIAGRAM



LEGEND:

○	SOIL PROBE LOCATIONS (SP)
VOCs	VOLATILE ORGANIC COMPOUNDS
mg/Kg	MILLIGRAMS PER KILOGRAM
NAS	NONE ABOVE STANDARDS
USCO	UNRESTRICTED USE SOIL CLEANUP OBJECTIVES
RSCO	RESTRICTED USE SOIL CLEANUP OBJECTIVES
▬	SHADED VALUES EXCEED USCO

0' 20' 40'
SCALE IN FEET (FT.)

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

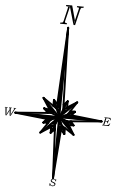
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

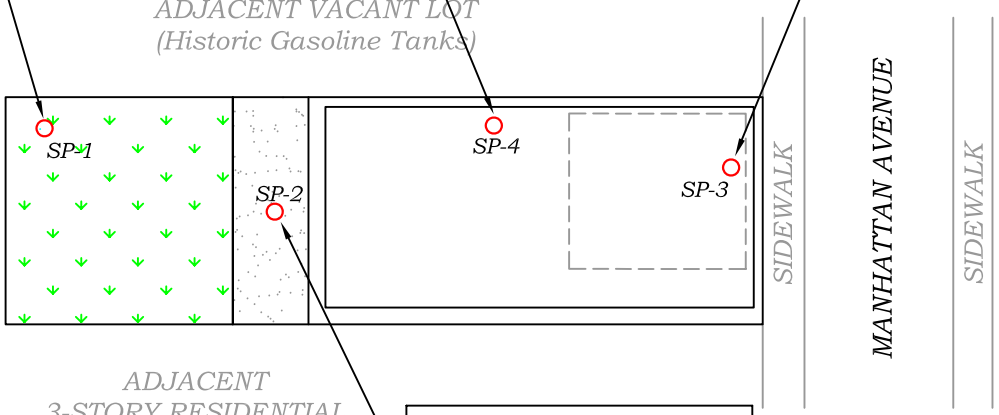
FIGURE 8: MAP OF VOCs IN SOIL



SP-4		
Depth	0' - 2'	6' - 8'
SVOCs	NAS	NAS

SP-1			
Depth	0' - 2'	2' - 4'	
SVOCs	mg/Kg	mg/Kg	USCO
Benzo(a)Pyrene	2.7	3.3	1
Benzo(b)Fluoranthene	2.5	3.3	1
Benzo(k)Fluoranthene	2.6	3.5	1
Chrysene	3.5	4.5	1
Dibenzo(a,h)Anthracene	0.41	0.36	0.33
Indeno(1,2,3-cd)Pyrene	1.6	1.7	0.5

SP-3		
Depth	0' - 2'	6' - 8'
SVOCs	NAS	NAS



SP-2		
Depth	0' - 2'	2' - 4'
SVOCs	NAS	NAS

LEGEND:

○	SOIL PROBE LOCATIONS (SP)
SVOCs	SEMI VOLATILE ORGANIC COMPOUNDS
mg/Kg	MILLIGRAMS PER KILOGRAM
NAS	NONE ABOVE STANDARDS
USCO	UNRESTRICTED USE SOIL CLEANUP OBJECTIVES
RSCO	RESTRICTED USE SOIL CLEANUP OBJECTIVES
▬	SHADED VALUES EXCEED USCO

0' 20' 40'
SCALE IN FEET (FT.)

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

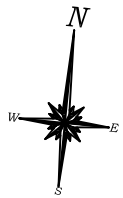
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

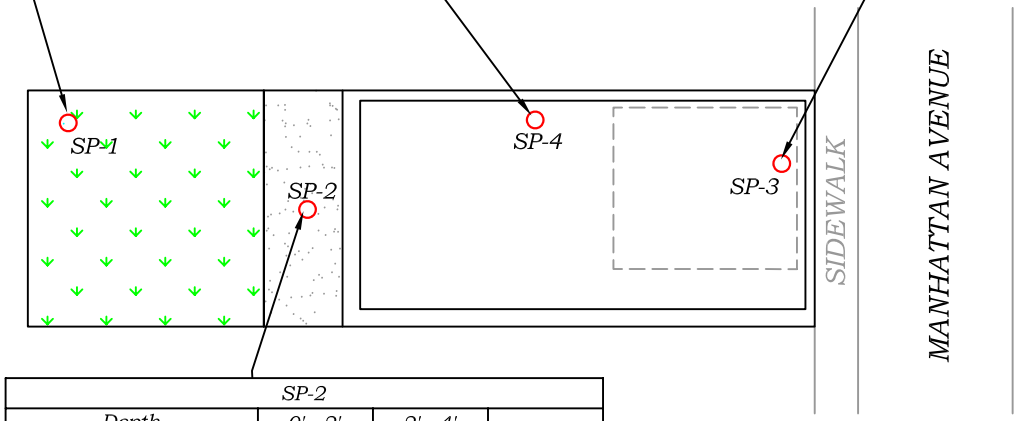
FIGURE 9: MAP OF SVOCs IN SOIL



SP-4			
Depth	0' - 2'	6' - 8'	
PESTICIDES / PCBs	mg/Kg	mg/Kg	USCO
4,4'-DDD	0.028	NAS	0.0033
4,4'-DDT	0.0068	NAS	0.0033

SP-3			
Depth	0' - 2'	6' - 8'	
PESTICIDES / PCBs	mg/Kg	mg/Kg	USCO
4,4'-DDD	NAS	0.0057	0.0033
4,4'-DDT	0.0059	NAS	0.0033

SP-1				
Depth	0' - 2'	2' - 4'		
PESTICIDES / PCBs	mg/Kg	mg/Kg	USCO	RSCO
4,4'-DDD	0.022	0.018	0.0033	2.6
4,4'-DDE	0.033	0.038	0.0033	1.8
4,4'-DDT	0.2	0.23	0.0033	1.7
Dieldrin	0.047	0.027	0.005	0.039



SP-2			
Depth	0' - 2'	2' - 4'	
PESTICIDES / PCBs	mg/Kg	mg/Kg	USCO
4,4'-DDD	NAS	0.026	0.0033
4,4'-DDE	0.0056	0.023	0.0033
4,4'-DDT	0.019	0.072	0.0033
Dieldrin	NAS	0.0085	0.005

LEGEND:

○	SOIL PROBE LOCATIONS (SP)
mg/Kg	MILLIGRAMS PER KILOGRAM
NAS	NONE ABOVE STANDARDS
USCO	UNRESTRICTED USE SOIL CLEANUP OBJECTIVES
RSCO	RESTRICTED USE SOIL CLEANUP OBJECTIVES
	BLUE SHADED VALUES EXCEED USCO
	RED SHADED VALUES EXCEED RSCO

0' 20' 40'
SCALE IN FEET (FT.)

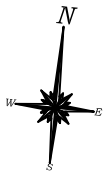
HYDRO TECH ENVIRONMENTAL CORP.
MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877
NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

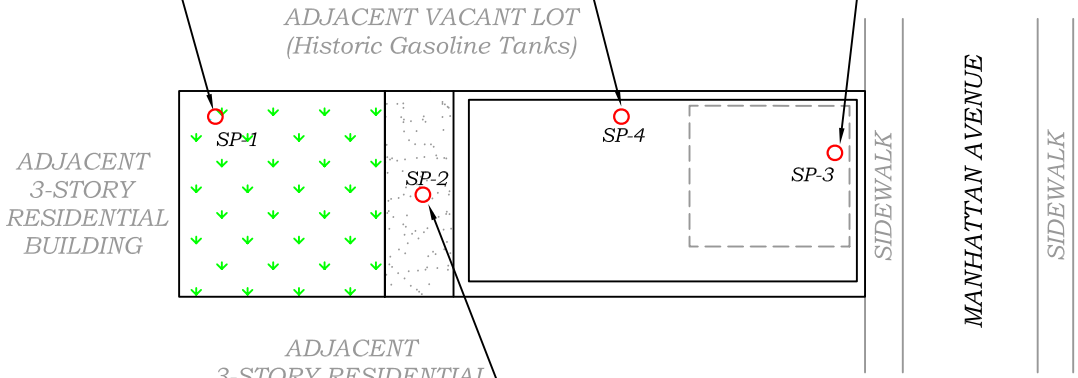
FIGURE 10: MAP OF PESTICIDES AND PCBs IN SOIL



SP-4				
Depth	0' - 2'	6' - 8'		
METALS	mg/Kg	mg/Kg	USCO	RSCO
Lead	NAS	67	63	400
Mercury	NAS	0.54	0.18	0.81
Nickel	8.71	NAS	30	140
Zinc	NAS	241	109	2,200

SP-3				
Depth	0' - 2'	6' - 8'		
METALS	mg/Kg	mg/Kg	USCO	RSCO
Copper	NAS	70.7	50	270
Lead	NAS	382	63	400
Mercury	NAS	1.08	0.18	0.81
Zinc	NAS	355	109	2,200

SP-1				
Depth	0' - 2'	2' - 4'		
METALS	mg/Kg	mg/Kg	USCO	RSCO
Arsenic	24.3	23	13	16
Barium	2270	2480	350	350
Cadmium	6.01	6.36	2.5	2.5
Chromium	43.2	44.7	30	NS
Copper	438	513	50	270
Lead	3620	4160	63	400
Mercury	4.73	3.64	0.18	0.81
Nickel	NAS	36.5	30	140
Silver	2.22	NAS	2	36
Zinc	3890	2550	109	2,200



SP-2				
Depth	0' - 2'	2' - 4'		
METALS	mg/Kg	mg/Kg	USCO	RSCO
Copper	NAS	70.1	50	270
Lead	118	273	63	400
Mercury	NAS	0.76	0.18	0.81
Zinc	NAS	239	109	2,200

LEGEND:

○	SOIL PROBE LOCATIONS (SP)
mg/Kg	MILLIGRAMS PER KILOGRAM
NAS	NONE ABOVE STANDARDS
USCO	UNRESTRICTED USE SOIL CLEANUP OBJECTIVES
RSCO	RESTRICTED USE SOIL CLEANUP OBJECTIVES
	BLUE SHADED VALUES EXCEED USCO
	RED SHADED VALUES EXCEED RSCO

0' 20' 40'
SCALE IN FEET (FT.)

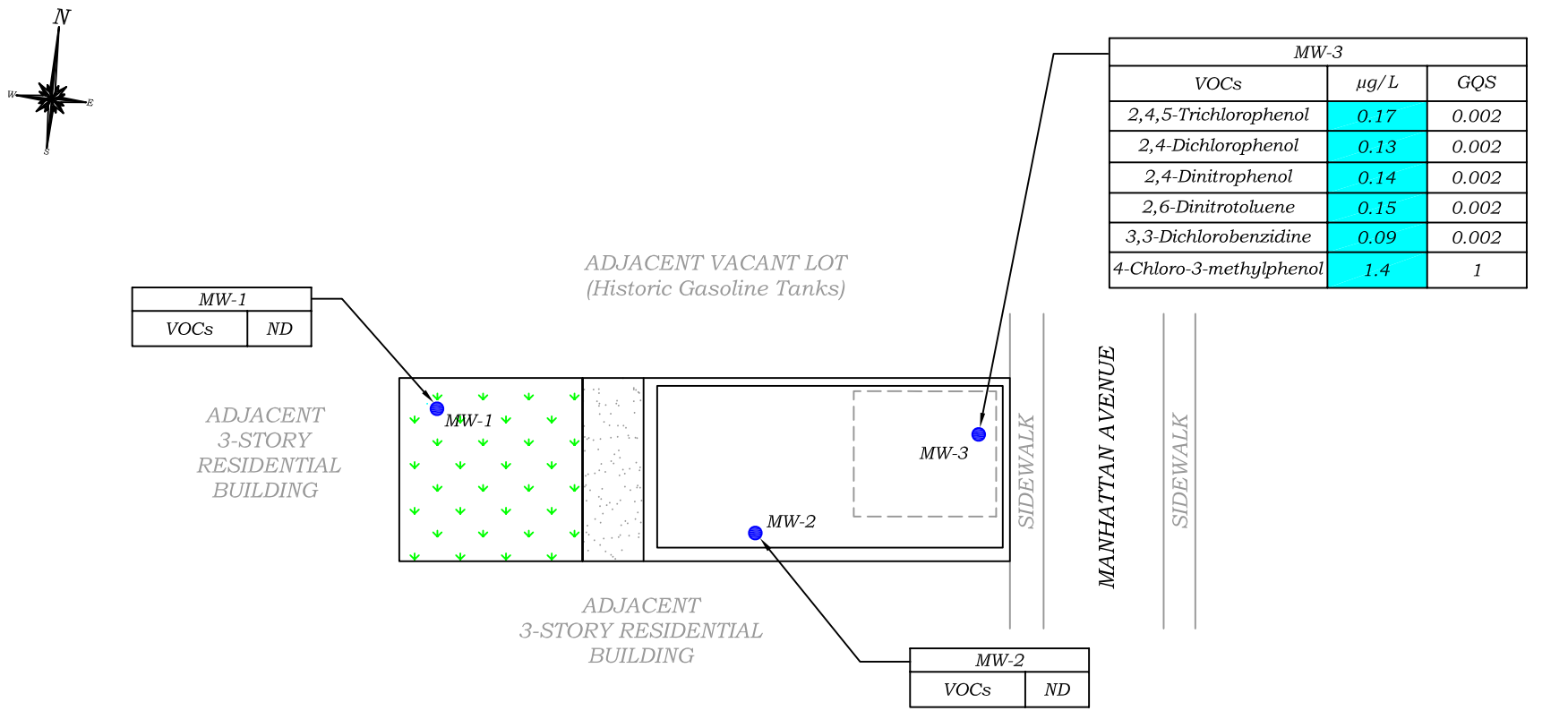
HYDRO TECH ENVIRONMENTAL CORP.
MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877
NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 11: MAP OF METALS IN SOIL



MW-1	
VOCs	ND

MW-3		
VOCs	µg/L	GQS
2,4,5-Trichlorophenol	0.17	0.002
2,4-Dichlorophenol	0.13	0.002
2,4-Dinitrophenol	0.14	0.002
2,6-Dinitrotoluene	0.15	0.002
3,3-Dichlorobenzidine	0.09	0.002
4-Chloro-3-methylphenol	1.4	1

MW-2	
VOCs	ND

LEGEND:

●	MONITORING WELL LOCATIONS (MW)
VOCs	VOLATILE ORGANIC COMPOUNDS
µg/L	MICROGRAMS PER LITER
NAS	NONE ABOVE STANDARD
ND	NONE DETECTED
GQS	GROUNDWATER QUALITY STANDARDS
	SHADED VALUES EXCEED GQS

0' 20' 40'
SCALE IN FEET (FT.)

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

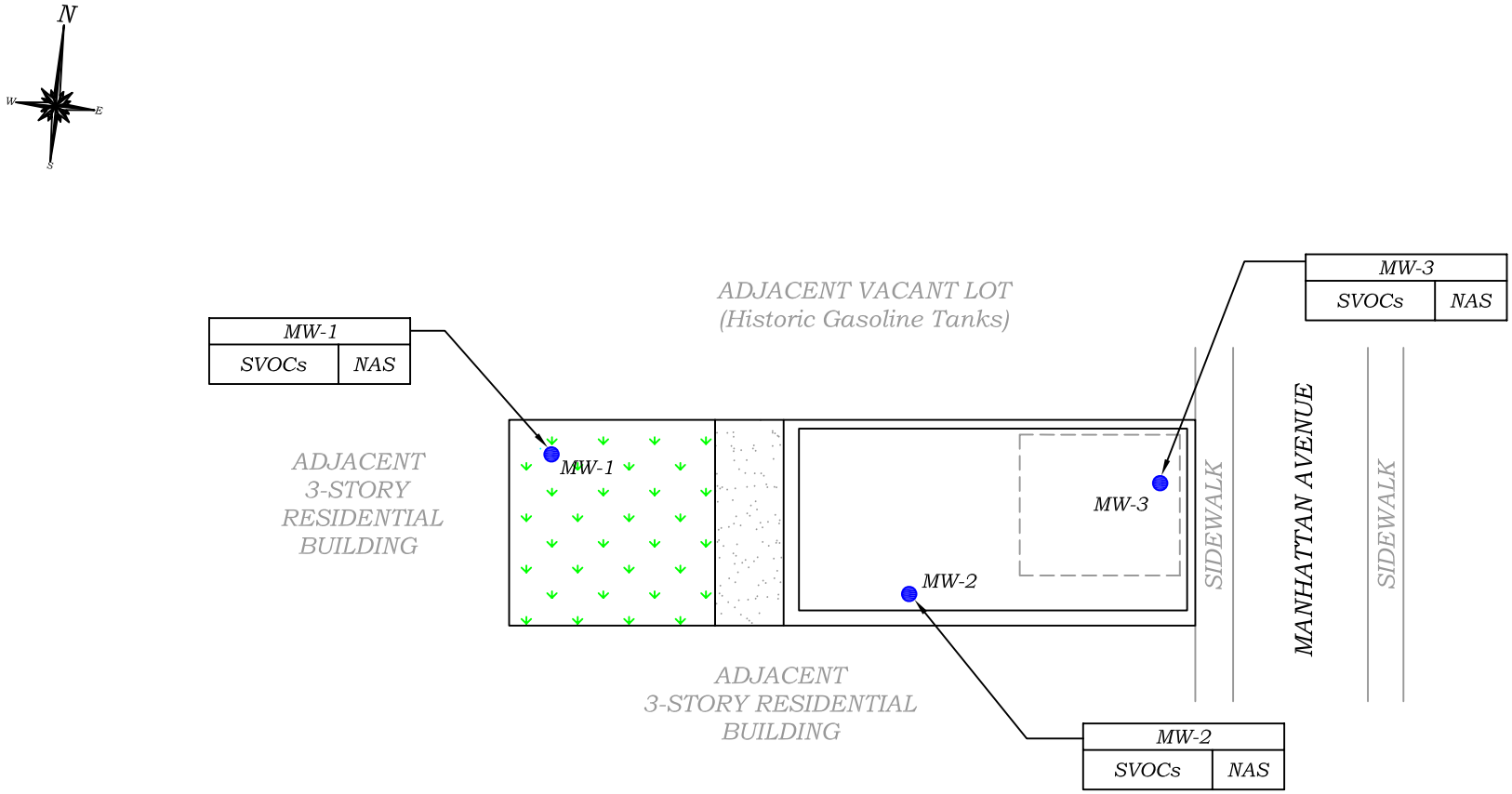
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 12: MAP OF VOCs IN GROUNDWATER



LEGEND:

●	MONITORING WELL LOCATIONS (MW)
SVOCs	SEMI VOLATILE ORGANIC COMPOUNDS
µg/L	MICROGRAMS PER LITER
NAS	NONE ABOVE STANDARD
GQS	GROUNDWATER QUALITY STANDARDS
	SHADED VALUES EXCEED GQS

0' 20' 40'
SCALE IN FEET (FT.)

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

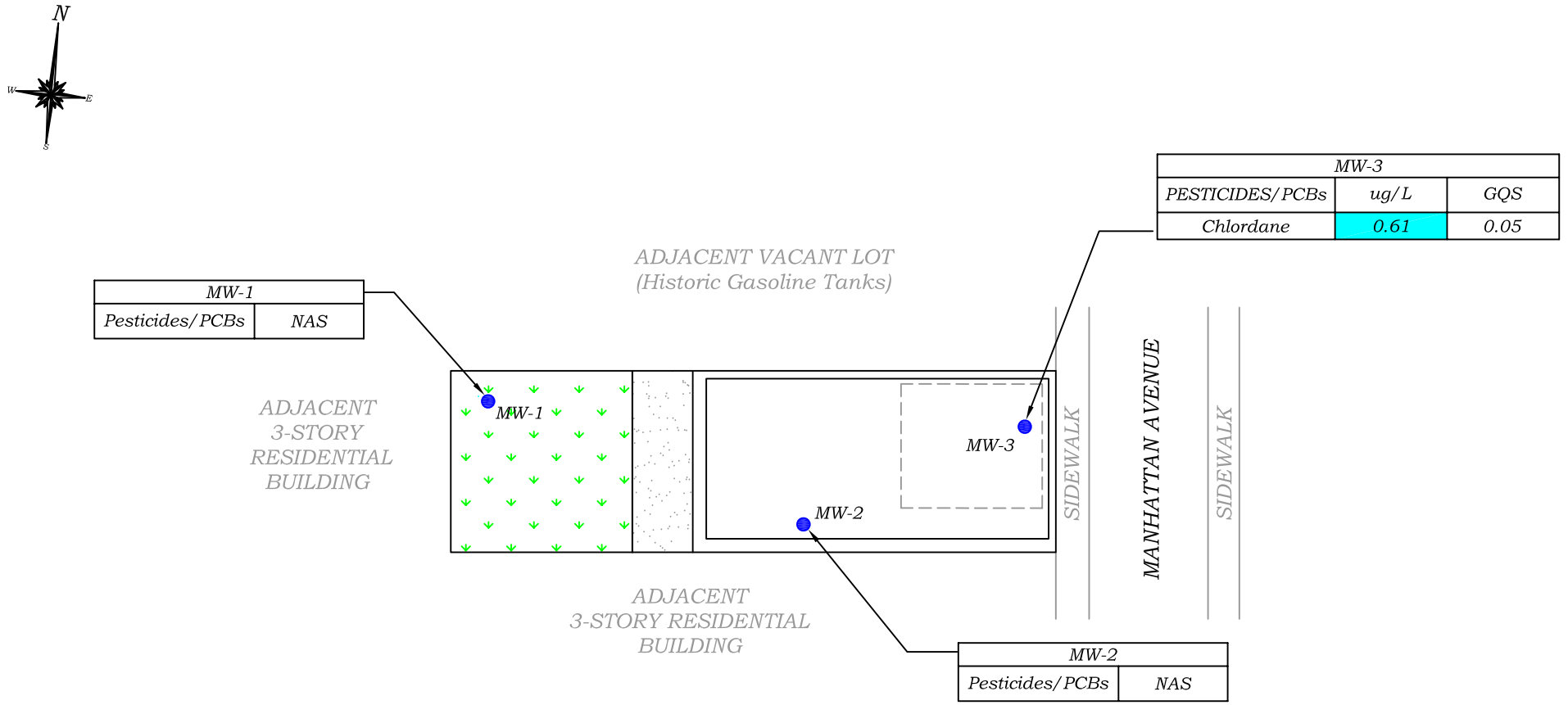
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 13: MAP OF SVOCs IN GROUNDWATER



LEGEND:

●	MONITORING WELL LOCATIONS (MW)
µg/L	MICROGRAMS PER LITER
NAS	NONE ABOVE STANDARD
GQS	GROUNDWATER QUALITY STANDARDS
▬	SHADED VALUES EXCEED GQS

0' 20' 40'
SCALE IN FEET (FT.)

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

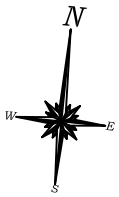
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 14: MAP OF PESTICIDES/PCBs IN GROUNDWATER



MW-1		
(Dissolved) Metals	ug/L	GQS
Antimony	0.008	0.003
Manganese	0.321	0.3

MW-3		
(Dissolved) Metals	ug/L	GQS
Antimony	0.009	0.003
Manganese	0.428	0.3

ADJACENT VACANT LOT
(Historic Gasoline Tanks)

ADJACENT
3-STORY
RESIDENTIAL
BUILDING

MW-1

MW-3

MW-2

SIDEWALK

MANHATTAN AVENUE

SIDEWALK

ADJACENT
3-STORY RESIDENTIAL
BUILDING

MW-2		
(Dissolved) Metals	ug/L	GQS
Antimony	0.009	0.003
Manganese	0.533	0.3

LEGEND:

●	MONITORING WELL LOCATIONS (MW)
µg/L	MICROGRAMS PER LITER
NAS	NONE ABOVE STANDARD
GQS	GROUNDWATER QUALITY STANDARDS
▬	SHADED VALUES EXCEED GQS

0' 20' 40'
SCALE IN FEET (FT.)

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

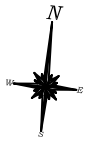
www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

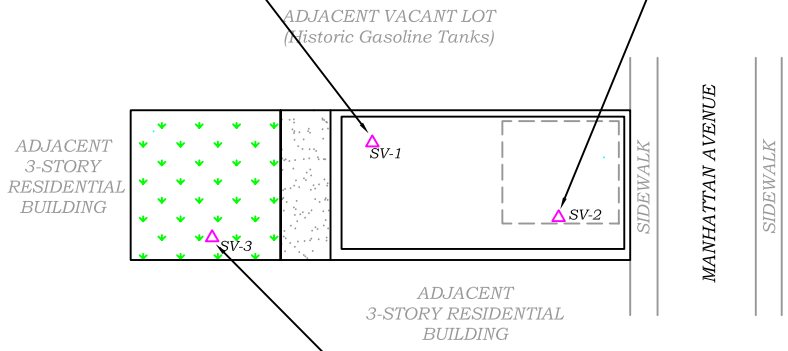
Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 15: MAP OF DISSOLVED METALS IN GROUNDWATER



SV-1	
VOCs	µg/m³
1,2,4-Trimethylbenzene	3.33
1,3,5-Trimethylbenzene	2.84
4-Ethyltoluene	2.7
4-Isopropyltoluene	1.33
Acetone	71.9
Benzene	20.3
Carbon Disulfide	18.2
Carbon Tetrachloride	0.4
Chloroform	3.32
Chloromethane	11.6
Cyclohexane	117
Dichlorodifluoromethane	1.56
Ethanol	571
Ethylbenzene	12.3
Heptane	347
Hexane	66.9
Isopropylalcohol	9.31
Isopropylbenzene	3.72
m,p-Xylene	32.7
Methyl Ethyl Ketone	50.4
o-Xylene	18
Propylene	165
sec-Butylbenzene	2.25
Styrene	2
Tetrachloroethene	0.66
Toluene	36.5
Trichloroethene	0.26
Trichlorofluoromethane	9.55



SV-2	
VOCs	µg/m³
1,2,4-Trimethylbenzene	2.62
2-Hexanone(MBK)	1.6
4-Ethyltoluene	1.08
4-Methyl-2-pentanone(MIBK)	1.17
Acetone	23.5
Benzene	3.14
Carbon Disulfide	4.48
Carbon Tetrachloride	0.5
Chloroform	2.33
Ethanol	6.72
Ethylbenzene	3.41
Heptane	1.07
Isopropylalcohol	4.27
m,p-Xylene	13
Methyl Ethyl Ketone	7.75
o-Xylene	4.64
Propylene	29.8
Tetrachloroethene	0.65
Toluene	8.96
Trichlorofluoromethane	11.6

SV-3	
VOCs	µg/m³
1,2,4-Trimethylbenzene	1.45
Acetone	13.6
Benzene	6.07
Carbon Disulfide	3.77
Carbon Tetrachloride	0.37
Chloromethane	1.4
Cyclohexane	1.38
Dichlorodifluoromethane	2.06
Ethanol	5.78
Ethylbenzene	2.92
Heptane	2.78
Hexane	3.84
Isopropylalcohol	2.08
m,p-Xylene	9.42
Methyl Ethyl Ketone	2.52
o-Xylene	3.09
Propylene	65.7
Tetrachloroethene	0.25
Toluene	10.5
Trichlorofluoromethane	1.64

LEGEND:

◇ SOIL VAPOR PROBE (SV)

VOCs VOLATILE ORGANIC COMPOUNDS

µg/m³ MICROGRAM PER CUBIC METER

NYSDOH NEW YORK STATE DEPT. OF HEALTH

BS BACKGROUND STANDARD

NAS NONE ABOVE STANDARD

0' 20' 40'
SCALE IN FEET (FT.)

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By: C.Q.
Reviewed By: C.Q.
Approved By: M.R
Date: 2/22/16
Scale: AS NOTED

TITLE:

FIGURE 16: MAP OF VOCs IN SOIL VAPOR

Tables

Table 1
Soil Analytical Results for VOC's
383 Manhattan Avenue, Brooklyn, NY

Sample ID	SP-1 (0-2 FT)		SP-1 (2-4 FT)		SP-2 (0-2 FT)		SP-2 (2-4 FT)		SP-3 (0-2 FT)		SP-3 (6-8 FT)		SP-4 (0-2 FT)		SP-4 (6-8 FT)		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential
Sampling Date	1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016			
Client Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil			
Compound	Result		Result		Result		Result		Result		Result		Result		Result			
Units	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/Kg	mg/Kg
1,1,1,2-Tetrachloroethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,1,1-Trichloroethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.68	100
1,1,2,2-Tetrachloroethane	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,1,2-Trichloroethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,1-Dichloroethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.27	19
1,1-Dichloroethene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.33	100
1,1-Dichloropropene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,2,3-Trichlorobenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,2,3-Trichloropropane	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,2,4-Trichlorobenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,2,4-Trimethylbenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	3.6	47
1,2-Dibromo-3-chloropropane	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,2-Dibromoethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,2-Dichlorobenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	1.1	100
1,2-Dichloroethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.02	2.3
1,2-Dichloropropane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,3,5-Trimethylbenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	8.4	47
1,3-Dichlorobenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	2.4	17
1,3-Dichloropropane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
1,4-Dichlorobenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	1.8	9.8
2,2-Dichloropropane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
2-Chlorotoluene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
2-Hexanone	< 0.041	U	< 0.048	U	< 0.025	U	< 0.034	U	< 0.042	U	< 0.04	U	< 0.025	U	< 0.024	U	NS	NS
2-Isopropyltoluene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
4-Chlorotoluene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
4-Methyl-2-pentanone	< 0.041	U	< 0.048	U	< 0.025	U	< 0.034	U	< 0.042	U	< 0.04	U	< 0.025	U	< 0.024	U	NS	NS
Acetone	< 0.041	U	< 0.048	U	< 0.025	U	< 0.034	U	< 0.042	U	< 0.04	U	< 0.025	U	< 0.024	U	0.05	100
Acrylonitrile	< 0.017	U	< 0.019	U	< 0.0099	U	< 0.014	U	< 0.017	U	< 0.016	U	< 0.01	U	< 0.0095	U	NS	NS
Benzene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.06	2.9
Bromobenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Bromochloromethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Bromodichloromethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Bromoform	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Bromomethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Carbon Disulfide	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Carbon tetrachloride	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.76	1.4
Chlorobenzene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	1.1	100
Chloroethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Chloroform	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.37	10
Chloromethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
cis-1,2-Dichloroethene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.25	59
cis-1,3-Dichloropropene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Dibromochloromethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Dibromomethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Dichlorodifluoromethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Ethylbenzene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	1	30
Hexachlorobutadiene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Isopropylbenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
m&p-Xylene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Methyl Ethyl Ketone	< 0.041	U	< 0.048	U	< 0.025	U	< 0.034	U	< 0.042	U	< 0.04	U	< 0.025	U	< 0.024	U	0.12	100
Methyl t-butyl ether (MTBE)	< 0.017	U	< 0.019	U	< 0.0099	U	< 0.014	U	< 0.017	U	< 0.016	U	< 0.01	U	< 0.0095	U	0.93	62
Methylene chloride	< 0.017	U	< 0.019	U	< 0.0099	U	< 0.014	U	< 0.017	U	< 0.016	U	< 0.01	U	< 0.0095	U	0.05	51
Naphthalene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
n-Butylbenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	12	100
n-Propylbenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	3.9	100
o-Xylene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
p-Isopropyltoluene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
sec-Butylbenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	11	100
Styrene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
tert-Butylbenzene	< 0.92	U	< 0.8	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	5.9	100
Tetrachloroethene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	1.3	5.5
Tetrahydrofuran (THF)	< 0.017	U	< 0.019	U	< 0.0099	U	< 0.014	U	< 0.017	U	< 0.016	U	< 0.01	U	< 0.0095	U	NS	NS
Toluene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.7	100
Total Xylenes	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.26	NS
trans-1,2-Dichloroethene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.19	100
trans-1,3-Dichloropropene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
trans-1,4-dichloro-2-butene	< 1.8	U	< 1.6	U	< 0.0099	U	< 0.014	U	< 0.017	U	< 0.016	U	< 0.01	U	< 0.0095	U	NS	NS
Trichloroethene	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.47	10
Trichlorofluoromethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Trichlorotrifluoroethane	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	NS	NS
Vinyl chloride	< 0.0083	U	< 0.0097	U	< 0.0049	U	< 0.0068	U	< 0.0085	U	< 0.0079	U	< 0.005	U	< 0.0048	U	0.02	0.21

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte
ND=analyte not detected at or above the level indicated

	sample exceeds NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
	sample exceeds NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential

Table 2
Soil Analytical Results for SVOCs
383 Manhattan Avenue, Brooklyn, NY

Sample ID	SP-1 (0-2 FT)		SP-1 (2-4 FT)		SP-2 (0-2 FT)		SP-2 (2-4 FT)		SP-3 (0-2 FT)		SP-3 (6-8 FT)		SP-4 (0-2 FT)		SP-4 (6-8 FT)		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential
Sampling Date	1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016			
Client Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil			
Compound	Result		Result		Result		Result		Result		Result		Result		Result			
Units	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/Kg	mg/Kg
1,2,4,5-Tetrachlorobenzene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
1,2,4-Trichlorobenzene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
1,2-Dichlorobenzene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
1,2-Diphenylhydrazine	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
1,3-Dichlorobenzene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
1,4-Dichlorobenzene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2,4,5-Trichlorophenol	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2,4,6-Trichlorophenol	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2,4-Dichlorophenol	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2,4-Dimethylphenol	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2,4-Dinitrophenol	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
2,4-Dinitrotoluene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2,6-Dinitrotoluene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2-Chloronaphthalene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2-Chlorophenol	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2-Methylnaphthalene	< 0.29	U	0.38	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
2-Methylphenol (o-cresol)	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	0.33	100
2-Nitroaniline	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
2-Nitrophenol	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
3&4-Methylphenol (m&p-cresol)	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
3,3'-Dichlorobenzidine	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
3-Nitroaniline	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
4,6-Dinitro-2-methylphenol	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
4-Bromophenyl phenyl ether	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
4-Chloro-3-methylphenol	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
4-Chloroaniline	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
4-Chlorophenyl phenyl ether	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
4-Nitroaniline	< 0.66	U	< 0.7	U	< 0.56	U	< 0.61	U	< 0.57	U	< 0.65	U	< 0.56	U	< 0.64	U	NS	NS
4-Nitrophenol	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Acenaphthene	**0.34**		**0.68**		< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	20	100
Acenaphthylene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	100	100
Acetophenone	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Aniline	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
Anthracene	**0.94**		**1.4**		< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	100	100
Benz(a)anthracene	**3.2**		**3.9**		< 0.24	U	**0.49**		< 0.25	U	**0.31**		< 0.24	U	< 0.28	U	1	1
Benzidine	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Benzo(a)pyrene	**2.7**		**3.3**		**0.44**		**0.48**		< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	1	1
Benzo(b)fluoranthene	**2.5**		**3.3**		**0.33**		**0.45**		< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	1	1
Benzo(ghi)perylene	**1.4**		**1.7**		**0.32**		**0.38**		< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	100	100
Benzo(k)fluoranthene	**2.6**		**3.5**		**0.29**		**0.41**		< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	0.8	1
Benzoic acid	< 0.82	U	< 0.88	U	< 0.7	U	< 0.76	U	< 0.71	U	< 0.82	U	< 0.69	U	< 0.8	U	NS	NS
Benzyl butyl phthalate	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Bis(2-chloroethoxy)methane	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Bis(2-chloroethyl)ether	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
Bis(2-chloroisopropyl)ether	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Bis(2-ethylhexyl)phthalate	**1.3**		**3.9**		**0.26**		**10**		< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Carbazole	**0.51**		**0.75**		< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
Chrysene	**3.5**		**4.5**		**0.25**		**0.49**		< 0.25	U	**0.32**		< 0.24	U	< 0.28	U	1	1
Dibenz(a,h)anthracene	**0.41**		**0.36**		< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	0.33	0.33
Dibenzofuran	< 0.29	U	**0.56**		< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	7	NS
Diethyl phthalate	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Dimethylphthalate	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Di-n-butylphthalate	**0.46**		**0.89**		**0.95**		< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Di-n-octylphthalate	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Fluoranthene	**6.6**		**8.7**		**0.42**		**0.84**		< 0.25	U	**0.49**		**0.37**		< 0.28	U	100	100
Fluorene	**0.38**		**0.78**		< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	30	100
Hexachlorobenzene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Hexachlorobutadiene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Hexachlorocyclopentadiene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Hexachloroethane	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Indeno(1,2,3-cd)pyrene	**1.6**		**1.7**		**0.37**		**0.42**		< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	0.5	0.5
Isophorone	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
Naphthalene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	12	100
Nitrobenzene	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
N-Nitrosodimethylamine	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
N-Nitrosodi-n-propylamine	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	NS	NS
N-Nitrosodiphenylamine	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
Pentachloronitrobenzene	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS
Pentachlorophenol	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	0.8	2.4
Phenanthrene	**5.1**		**8.5**		**0.26**		**0.52**		< 0.25	U	< 0.29	U	**0.4**	U	< 0.28	U	100	100
Phenol	< 0.29	U	< 0.31	U	< 0.24	U	< 0.27	U	< 0.25	U	< 0.29	U	< 0.24	U	< 0.28	U	0.33	100
Pyrene	**5.7**		**7.7**		**0.4**		**0.9**		< 0.25	U	**0.54**		**0.33**		< 0.28	U	100	100
Pyridine	< 0.41	U	< 0.44	U	< 0.35	U	< 0.38	U	< 0.35	U	< 0.41	U	< 0.35	U	< 0.4	U	NS	NS

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte
ND=analyte not detected at or above the level indicated

sample exceeds NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
sample exceeds NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential

Table 3

Soil Analytical Results for Pesticides and PCB's

383 Manhattan Avenue, Brooklyn, NY

Sample ID	SP-1 (0-2 FT)		SP-1 (2-4 FT)		SP-2 (0-2 FT)		SP-2 (2-4 FT)		SP-3 (0-2 FT)		SP-3 (6-8 FT)		SP-4 (0-2 FT)		SP-4 (6-8 FT)		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential
Sampling Date	1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016			
Client Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil			
Compound	Result		Result		Result		Result		Result		Result		Result		Result			
Units	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/Kg	mg/Kg
4,4' -DDD	**0.022**		**0.018**		< 0.0021	U	**0.026**		< 0.0021	U	**0.0057**		**0.028**		< 0.0024	U	2.6	0.0033
4,4' -DDE	**0.033**		**0.038**		**0.0056**		**0.023**		< 0.0033	U	< 0.0025	U	< 0.003	U	< 0.0024	U	1.8	0.0033
4,4' -DDT	**0.2**		**0.23**		**0.019**		**0.072**		**0.0059**		< 0.0025	U	**0.0068**		< 0.0024	U	1.7	0.0033
a-BHC	**0.02**		< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	0.097	0.02
a-Chlordane	**0.017**		**0.015**		**0.061**		**0.01**		**0.043**		**0.0071**		**0.067**		< 0.004	U	0.91	0.094
Aldrin	< 0.0042	U	< 0.0043	U	< 0.0035	U	< 0.0039	U	< 0.0035	U	< 0.0041	U	< 0.0035	U	< 0.004	U	0.019	0.005
b-BHC	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	0.072	0.036
Chlordane	**0.13**		**0.13**		**0.65**		**0.094**		**0.47**		**0.056**		< 0.35	U	< 0.04	U	NS	NS
d-BHC	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	100	0.04
Dieldrin	**0.047**		**0.027**		< 0.0035	U	**0.0085**		< 0.0035	U	< 0.0041	U	< 0.0035	U	< 0.004	U	0.039	0.005
Endosulfan I	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	4.8	2.4
Endosulfan II	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	4.8	2.4
Endosulfan sulfate	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	4.8	2.4
Endrin	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	2.2	0.014
Endrin aldehyde	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	NS	NS
Endrin ketone	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	NS	NS
g-BHC	< 0.0017	U	< 0.0017	U	< 0.0014	U	< 0.0016	U	< 0.0014	U	< 0.0016	U	< 0.0014	U	< 0.0016	U	0.28	0.1
g-Chlordane	**0.016**		**0.014**		**0.073**		**0.012**		**0.048**		**0.0081**		**0.08**		< 0.004	U	NS	NS
Heptachlor	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	**0.0078**		< 0.0081	U	0.42	0.042
Heptachlor epoxide	< 0.0084	U	< 0.0087	U	< 0.0071	U	< 0.0078	U	< 0.0069	U	< 0.0082	U	< 0.007	U	< 0.0081	U	NS	NS
Methoxychlor	< 0.042	U	< 0.043	U	< 0.035	U	< 0.039	U	< 0.035	U	< 0.041	U	< 0.035	U	< 0.04	U	NS	NS
Toxaphene	< 0.17	U	< 0.17	U	< 0.14	U	< 0.16	U	< 0.14	U	< 0.16	U	< 0.14	U	< 0.16	U	NS	NS
PCB-1016	< 0.084	U	< 0.087	U	< 0.071	U	< 0.078	U	< 0.069	U	< 0.082	U	< 0.07	U	< 0.081	U	0.1	1
PCB-1221	< 0.084	U	< 0.087	U	< 0.071	U	< 0.078	U	< 0.069	U	< 0.082	U	< 0.07	U	< 0.081	U	0.1	1
PCB-1232	< 0.084	U	< 0.087	U	< 0.071	U	< 0.078	U	< 0.069	U	< 0.082	U	< 0.07	U	< 0.081	U	0.1	1
PCB-1242	< 0.084	U	< 0.087	U	< 0.071	U	< 0.078	U	< 0.069	U	< 0.082	U	< 0.07	U	< 0.081	U	0.1	1
PCB-1248	< 0.084	U	< 0.087	U	< 0.071	U	< 0.078	U	< 0.069	U	< 0.082	U	< 0.07	U	< 0.081	U	0.1	1
PCB-1254	< 0.084	U	< 0.087	U	< 0.071	U	< 0.078	U	< 0.069	U	< 0.082	U	< 0.07	U	< 0.081	U	0.1	1
PCB-1260	< 0.084	U	< 0.087	U	< 0.071	U	< 0.078	U	< 0.069	U	< 0.082	U	< 0.07	U	< 0.081	U	0.1	1
PCB-1262	< 0.084	U	< 0.087	U	< 0.071	U	< 0.078	U	< 0.069	U	< 0.082	U	< 0.07	U	< 0.081	U	NS	NS
PCB-1268	< 0.084	U	< 0.087	U	< 0.071	U	< 0.078	U	< 0.069	U	< 0.082	U	< 0.07	U	< 0.081	U	NS	NS
Total PCBs	ND		ND		ND		ND		ND		ND		ND		ND		0.1	1

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

ND=analyte not detected at or above the level indicated

sample exceeds NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives

sample exceeds NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential

Table 4

Soil Analytical Results for Metals

383 Manhattan Avenue, Brooklyn, NY

Sample ID	SP-1 (0-2 FT)		SP-1 (2-4 FT)		SP-2 (0-2 FT)		SP-2 (2-4 FT)		SP-3 (0-2 FT)		SP-3 (6-8 FT)		SP-4 (0-2 FT)		SP-4 (6-8 FT)		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	RCRA Toxicity Limit
Sampling Date	1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016		1/11/2016				
Client Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil				
Compound	Result		Result		Result		Result		Result		Result		Result		Result				
Units	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/Kg	mg/Kg	mg/L
Aluminum	4810		6150		4450		8030		2720		6670		3420		10700		NS	NS	-
Antimony	24.9		10.5		< 3.2	U	< 3.7	U	< 3.6	U	< 4.2	U	< 3.4	U	< 4.0	U	NS	NS	-
Arsenic	24.3		23		4.8		11.1		< 0.7	U	5		1.5		3.6		13	16	-
Barium	2270		2480		50.3		148		21.7		121		38.5		79		350	350	-
TCLP Barium	0.44		0.32		-	-	-	-	-	-	-	-	-	-	-	-	-	-	100
Beryllium	0.58		0.79		< 0.26	U	0.33		< 0.29	U	0.34		< 0.27	U	0.58		7.2	14	-
Cadmium	6.01		6.36		< 0.32	U	1		< 0.36	U	0.52		0.38		0.49		2.5	2.5	-
Calcium	17000		23800		4480		7800		2940		2590		2850		1170		NS	NS	-
Chromium	43.2		44.7		14.3		20.5		8.8		18.2		10.3		24.6		30	NS	-
Cobalt	10.5		12.5		4.37		7.66		3.33		7.32		4.13		10.5		NS	NS	-
Copper	438		513		28.5		70.1		12.4		70.7		15.5		25.1		50	270	-
Iron	32900		33400		10600		20600		10400		15000		11900		21600		NS	NS	-
Lead	3620		4160		118		273		25.6		382		45.5		67		63	400	-
TCLP Lead	3.08		1.61		0.31		0.19		-	-	<0.10	U	-	-	-	-	-	-	5
Magnesium	1890		2320		2180		2030		1260		1580		1640		2790		NS	NS	-
Manganese	838		499		221		659		303		345		263		265		1600	2000	-
Mercury	4.73		3.64		0.14		0.76		< 0.03	U	1.08		0.04		0.54		0.18	0.81	-
TCLP Mercury	<0.0002	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2
Nickel	29		36.5		9.46		21.4		6.35		13.4		8.71		22		30	140	-
Potassium	648		744		648		1220		411		1000		559		1770		NS	NS	-
Selenium	< 1.5	U	< 1.8	U	< 1.3	U	< 1.5	U	< 1.5	U	< 1.7	U	< 1.3	U	< 1.6	U	3.9	36	-
Silver	2.22		1.73		< 0.32	U	< 0.37	U	< 0.36	U	< 0.42	U	< 0.34	U	< 0.40	U	2	36	-
Sodium	215		273		170		148		69.5		130		112		93.7		NS	NS	-
Thallium	< 3.5	U	< 4.1	U	< 2.9	U	< 3.4	U	< 3.3	U	< 3.8	U	< 3.0	U	< 3.6	U	NS	NS	-
Vanadium	36.6		36.5		22.4		28.3		11.6		27.6		16.6		35.8		NS	NS	-
Zinc	3890		2550		60.5		239		23		355		27.8		241		109	2200	-

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

U=analyte not detected at or above the level indicated

NS=this indicates that no regulatory limit has been established for this analyte

sample exceeds NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives

sample exceeds NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential

Table 5

Groundwater Samples Analytical Results for VOCs

383 Manhattan Avenue, Brooklyn, NY

Sample ID	MW-1		MW-2		MW-3		Field Blank		Field Blank 2		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	1/12/2016		1/12/2016		1/12/2016		1/12/2016		1/12/2016		
Client Matrix	Water		Water		Water		Water		Water		
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
1,2,4-Trichlorobenzene	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	NS
1,2-Dichlorobenzene	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	NS
1,2-Diphenylhydrazine	< 0.05	U	**0.08**		< 0.05	U	< 0.05	U	< 0.05	U	20
1,3-Dichlorobenzene	< 0.05	U	< 0.05	U	< 0.05	U	< 0.05	U	< 0.05	U	NS
1,4-Dichlorobenzene	**0.05**		**0.04**		**0.27**		< 0.02	U	< 0.02	U	50
2,4,5-Trichlorophenol	< 0.02	U	< 0.02	U	**0.17**		< 0.02	U	< 0.02	U	0.002
2,4,6-Trichlorophenol	< 0.02	U	< 0.02	U	**0.15**		< 0.02	U	< 0.02	U	NS
2,4-Dichlorophenol	< 0.02	U	< 0.02	U	**0.13**		< 0.02	U	< 0.02	U	0.002
2,4-Dimethylphenol	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	NS
2,4-Dinitrophenol	< 0.02	U	< 0.02	U	**0.14**		< 0.02	U	< 0.02	U	0.002
2,4-Dinitrotoluene	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	5
2,6-Dinitrotoluene	< 0.02	U	< 0.02	U	**0.15**		< 0.02	U	< 0.02	U	0.002
2-Chloronaphthalene	< 0.02	U	< 0.02	U	**0.04**		< 0.02	U	< 0.02	U	NS
2-Chlorophenol	< 0.04	U	< 0.04	U	**0.37**		< 0.04	U	< 0.04	U	50
2-Methylphenol (o-cresol)	< 0.10	U	< 0.10	U	< 0.10	U	< 0.10	U	< 0.10	U	50
2-Nitroaniline	< 0.04	U	< 0.04	U	< 0.04	U	< 0.04	U	< 0.04	U	0.04
2-Nitrophenol	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	0.5
3&4-Methylphenol (m&p-cresol)	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	5
3,3'-Dichlorobenzidine	< 0.02	U	< 0.02	U	**0.09**		< 0.02	U	< 0.02	U	0.002
3-Nitroaniline	< 0.10	U	< 0.10	U	< 0.10	U	< 0.10	U	< 0.10	U	10
4,6-Dinitro-2-methylphenol	< 0.10	U	< 0.10	U	< 0.10	U	< 0.10	U	< 0.10	U	0.4
4-Bromophenyl phenyl ether	< 0.10	U	< 0.10	U	< 0.10	U	< 0.10	U	< 0.10	U	NS
4-Chloro-3-methylphenol	< 0.80	U	< 0.80	U	**1.4**		< 0.80	U	< 0.80	U	1
4-Chloroaniline	< 0.05	U	< 0.05	U	**0.16**		< 0.05	U	< 0.05	U	50
4-Chlorophenyl phenyl ether	< 0.02	U	**0.03**		**0.32**		< 0.02	U	< 0.02	U	50
4-Nitroaniline	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	< 0.50	U	50

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

NS=this indicates that no regulatory limit has been established for this analyte

NT=this indicates the analyte was not a target for this sample

Table 6
Groundwater Samples Analytical Results for SVOCs
383 Manhattan Avenue, Brooklyn, NY

Sample ID	MW-1		MW-2		MW-3		Field Blank		Field Blank 2		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	1/12/2016		1/12/2016		1/12/2016		1/12/2016		1/12/2016		
Client Matrix	Water		Water		Water		Water		Water		
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
1,2,4-Trichlorobenzene	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	NS
1,2-Dichlorobenzene	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	NS
1,2-Diphenylhydrazine	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	NS
1,3-Dichlorobenzene	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	3
1,4-Dichlorobenzene	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	< 2.5	U	NS
2,4,5-Trichlorophenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
2,4,6-Trichlorophenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
2,4-Dichlorophenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	5
2,4-Dimethylphenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
2,4-Dinitrophenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	5
2,4-Dinitrotoluene	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
2,6-Dinitrotoluene	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
2-Chloronaphthalene	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	10
2-Chlorophenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
2-Methylphenol (o-cresol)	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
2-Nitroaniline	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
2-Nitrophenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
3&4-Methylphenol (m&p-cresol)	< 10	U	< 10	U	< 10	U	< 10	U	< 10	U	NS
3,3'-Dichlorobenzidine	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
3-Nitroaniline	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
4,6-Dinitro-2-methylphenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
4-Bromophenyl phenyl ether	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	NS
4-Chloro-3-methylphenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
4-Chloroaniline	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
4-Chlorophenyl phenyl ether	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	NS
4-Nitroaniline	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
4-Nitrophenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
Acetophenone	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	NS
Aniline	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
Benzidine	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
Benzoic acid	< 50	U	< 50	U	< 50	U	< 50	U	< 50	U	NS
Benzyl butyl phthalate	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	50
Bis(2-chloroethoxy)methane	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
Bis(2-chloroethyl)ether	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1
Bis(2-chloroisopropyl)ether	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	NS
Carbazole	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	NS
Dibenzofuran	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	NS
Diethyl phthalate	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	50
Dimethylphthalate	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	50
Di-n-butylphthalate	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	50
Di-n-octylphthalate	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	50
Hexachlorocyclopentadiene	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	5
Isophorone	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	50
N-Nitrosodimethylamine	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	NS
N-Nitrosodi-n-propylamine	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	NS
N-Nitrosodiphenylamine	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	< 5.0	U	50
Phenol	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	< 1.0	U	1

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
NS=this indicates that no regulatory limit has been established for this analyte
ND=analyte not detected at or above the level indicated

Table 7

Groundwater Samples Analytical Results for Pestecides and PCBS

383 Manhattan Avenue, Brooklyn, NY

Sample ID	MW-1		MW-2		MW-3		Field Blank		Field Blank 2		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	1/12/2016		1/12/2016		1/12/2016		1/12/2016		1/12/2016		
Client Matrix	Water		Water		Water		Water		Water		
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
4,4' -DDD	< 0.005	U	< 0.005	U	< 0.025	U	< 0.005	U	< 0.005	U	0.3
4,4' -DDE	< 0.005	U	< 0.005	U	< 0.025	U	< 0.005	U	< 0.005	U	0.2
4,4' -DDT	< 0.005	U	< 0.005	U	< 0.025	U	< 0.005	U	< 0.005	U	0.2
a-BHC	< 0.005	U	< 0.005	U	< 0.025	U	< 0.005	U	< 0.005	U	0.01
Alachlor	< 0.075	U	< 0.075	U	< 0.75	U	< 0.075	U	< 0.075	U	0.5
Aldrin	< 0.002	U	< 0.002	U	< 0.015	U	< 0.010	U	< 0.002	U	NS
b-BHC	< 0.005	U	< 0.005	U	< 0.025	U	< 0.005	U	< 0.005	U	0.04
Chlordane	< 0.050	U	< 0.050	U	0.61	U	< 0.050	U	< 0.050	U	0.05
d-BHC	< 0.025	U	< 0.025	U	< 0.050	U	< 0.025	U	< 0.025	U	0.04
Dieldrin	< 0.002	U	< 0.002	U	< 0.015	U	< 0.002	U	< 0.002	U	0.004
Endosulfan I	< 0.005	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.005	U	NS
Endosulfan II	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.005	U	NS
Endosulfan Sulfate	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	NS
Endrin	< 0.005	U	< 0.005	U	< 0.050	U	< 0.005	U	< 0.005	U	NS
Endrin Aldehyde	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	5
Endrin ketone	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	5
g-BHC (Lindane)	< 0.025	U	< 0.025	U	< 0.025	U	< 0.025	U	< 0.025	U	0.05
Heptachlor	< 0.005	U	< 0.005	U	< 0.050	U	< 0.005	U	< 0.005	U	0.04
Heptachlor epoxide	< 0.005	U	< 0.005	U	< 0.050	U	< 0.005	U	< 0.005	U	0.03
Methoxychlor	< 0.10	U	< 0.10	U	< 0.050	U	< 0.10	U	< 0.10	U	35
Toxaphene	< 1.0	U	< 1.0	U	< 10	U	< 1.0	U	< 1.0	U	0.06
PCB-1016	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	0.09
PCB-1221	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	0.09
PCB-1232	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	0.09
PCB-1242	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	0.09
PCB-1248	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	0.09
PCB-1254	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	0.09
PCB-1260	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	0.09
PCB-1262	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	NS
PCB-1268	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	< 0.050	U	NS
Total PCBs	ND		ND		ND		ND		ND		0.09

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

U=analyte not detected at or above the level indicated

NS=this indicates that no regulatory limit has been established for this analyte

NT=this indicates the analyte was not a target for this sample

Table 8

Groundwater Samples Analytical Results for Metals

383 Manhattan Avenue, Brooklyn, NY

Sample ID	MW-1		MW-2		MW-3		Field Blank		Field Blank 2		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	1/12/2016		1/12/2016		1/12/2016		1/12/2016		1/12/2016		
Client Matrix	Water		Water		Water		Water		Water		
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Aluminum	**0.126**		**0.09**		**0.994**		< 0.010	U	< 0.010	U	0.1
Antimony	**0.01**		< 0.003	U	< 0.003	U	< 0.003	U	< 0.003	U	0.003
Arsenic	**0.006**		**0.007**		< 0.004	U	< 0.004	U	< 0.004	U	0.025
Barium	**0.066**		**0.264**		**0.148**		< 0.002	U	< 0.002	U	1
Beryllium	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	0.003
Cadmium	**0.001**		< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	0.005
Calcium	**237**		**175**		**210**		**0.28**		**0.061**		NS
Chromium	**0.002**		< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	0.05
Chromium, Hexavalent	< 0.01	U	< 0.01	U	< 0.01	U	< 0.01	U	< 0.01	U	0.05
Cobalt	< 0.002	U	< 0.002	U	< 0.002	U	< 0.002	U	< 0.002	U	NS
Copper	**0.029**		< 0.005	U	**0.034**		< 0.005	U	< 0.005	U	0.2
Iron	**0.223**		**2.85**		**1.1**		**0.036**		< 0.010	U	0.3
Lead	**0.027**		**0.003**		**0.024**		< 0.002	U	< 0.002	U	0.025
Magnesium	**17.9**		**23**		**69.5**		**0.01**		< 0.01	U	35
Manganese	**0.014**		**0.973**		**0.137**		< 0.001	U	< 0.001	U	0.3
Mercury	< 0.0002	U	< 0.0002	U	< 0.0002	U	< 0.0002	U	< 0.0002	U	0.0007
Nickel	**0.008**		< 0.001	U	**0.003**		< 0.001	U	< 0.001	U	0.1
Potassium	**19.7**		24.7	U	**15.1**		< 0.1	U	< 0.1	U	NS
Selenium	< 0.010	U	< 0.010	U	< 0.010	U	< 0.010	U	< 0.010	U	0.01
Silver	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	0.05
Sodium	**42.3**		51.1	U	**80.5**		**1.6**		**0.3**		20
Thallium	< 0.0005	U	< 0.0005	U	< 0.0005	U	< 0.0005	U	< 0.0005	U	0.0005
Trivalent Chromium	**0.002**		< 0.001	U	**0.02**		< 0.001	U	< 0.001	U	NS
Vanadium	**0.002**		< 0.002	U	< 0.002	U	< 0.002	U	< 0.002	U	NS
Zinc	**2.69**		**0.004**		**0.068**		< 0.002	U	< 0.002	U	5
Metals, Target Analyte, Dissolved											
Aluminum (Dissolved)	< 0.011	U	< 0.011	U	< 0.011	U	< 0.011	U	< 0.011	U	0.1
Antimony (Dissolved)	**0.008**		**0.009**		**0.009**		< 0.003	U	< 0.003	U	0.003
Arsenic (Dissolved)	< 0.004	U	< 0.004	U	< 0.004	U	< 0.004	U	< 0.004	U	0.025
Barium (Dissolved)	**0.155**		**0.153**		**0.148**		< 0.002	U	< 0.002	U	1
Beryllium (Dissolved)	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	0.003
Cadmium (Dissolved)	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	0.005
Calcium (Dissolved)	**216**		**214**		**210**		**0.06**		**0.04**		NS
Chromium (Dissolved)	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	0.05
Cobalt (Dissolved)	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	NS
Copper (Dissolved)	< 0.005	U	**0.007**		**0.005**		< 0.005	U	< 0.005	U	0.2
Iron (Dissolved)	**0.058**		**0.056**		**0.045**		< 0.011	U	< 0.011	U	0.3
Lead (Dissolved)	< 0.002	U	< 0.002	U	< 0.002	U	< 0.002	U	< 0.002	U	0.025
Magnesium (Dissolved)	**20.2**		**20.2**		**20.1**		< 0.01	U	< 0.01	U	35
Manganese (Dissolved)	**0.321**		**0.533**		**0.428**		< 0.001	U	< 0.001	U	0.3
Mercury (Dissolved)	< 0.0002	U	< 0.0002	U	< 0.0002	U	< 0.0002	U	< 0.0002	U	0.0007
Nickel (Dissolved)	**0.006**		**0.004**		**0.004**	U	< 0.001	U	**0.001**		0.1
Potassium (Dissolved)	**22.4**		**22.1**		**22.1**		< 0.1	U	< 0.1	U	NS
Selenium (Dissolved)	< 0.002	U	< 0.002	U	< 0.002	U	< 0.002	U	< 0.002	U	0.01
Silver (Dissolved)	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	< 0.001	U	0.05
Sodium (Dissolved)	**52.5**		**52.5**		**52.1**		< 0.11	U	< 0.11	U	20
Thallium (Dissolved)	< 0.0005	U	< 0.0005	U	< 0.0005	U	< 0.0005	U	< 0.0005	U	0.0005
Vanadium (Dissolved)	< 0.002	U	< 0.002	U	< 0.002	U	< 0.002	U	< 0.002	U	NS
Zinc (Dissolved)	**0.994**		**1.04**		**1.15**		**0.01**		**0.01**		5

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

U=analyte not detected at or above the level indicated

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NS=this indicates that no regulatory limit has been established for this analyte

NT=this indicates the analyte was not a target for this sample

Table 9
Soil Vapor Analytical Results
383 Manhattan Avenue, Brooklyn, NY

Sample ID	SV-1		SV-2		SV-3	
Sampling Date	1/11/2016		1/11/2016		1/11/2016	
Client Matrix	Soil Vapor		Soil Vapor		Soil Vapor	
Compound	Result		Result		Result	
Units	ug/m3	Q	ug/m3	Q	ug/m3	Q
1,1,1,2-Tetrachloroethane	< 1.00	U	< 1.00	U	< 1.00	U
1,1,1-Trichloroethane	< 1.00	U	< 1.00	U	< 1.00	U
1,1,2,2-Tetrachloroethane	< 1.00	U	< 1.00	U	< 1.00	U
1,1,2-Trichloroethane	< 1.00	U	< 1.00	U	< 1.00	U
1,1-Dichloroethane	< 1.00	U	< 1.00	U	< 1.00	U
1,1-Dichloroethene	< 1.00	U	< 1.00	U	< 1.00	U
1,2,4-Trichlorobenzene	< 1.00	U	< 1.00	U	< 1.00	U
1,2,4-Trimethylbenzene	**3.33**		**2.62**		**1.45**	
1,2-Dibromoethane(EDB)	< 1.00	U	< 1.00	U	< 1.00	U
1,2-Dichlorobenzene	< 1.00	U	< 1.00	U	< 1.00	U
1,2-Dichloroethane	< 1.00	U	< 1.00	U	< 1.00	U
1,2-dichloropropane	< 1.00	U	< 1.00	U	< 1.00	U
1,2-Dichlorotetrafluoroethane	< 1.00	U	< 1.00	U	< 1.00	U
1,3,5-Trimethylbenzene	**2.84**		< 1.00	U	< 1.00	U
1,3-Butadiene	< 1.00	U	< 1.00	U	< 1.00	U
1,3-Dichlorobenzene	< 1.00	U	< 1.00	U	< 1.00	U
1,4-Dichlorobenzene	< 1.00	U	< 1.00	U	< 1.00	U
1,4-Dioxane	< 1.00	U	< 1.00	U	< 1.00	U
2-Hexanone(MBK)	< 1.00	U	**1.6**		< 1.00	U
4-Ethyltoluene	**2.7**		**1.08**		< 1.00	U
4-Isopropyltoluene	**1.33**		< 1.00	U	< 1.00	U
4-Methyl-2-pentanone(MIBK)	< 1.00	U	**1.17**		< 1.00	U
Acetone	**71.9**		**23.5**		**13.6**	
Acrylonitrile	< 1.00	U	< 1.00	U	< 1.00	U
Benzene	**20.3**		**3.14**		**6.07**	
Benzyl chloride	< 1.00	U	< 1.00	U	< 1.00	U
Bromodichloromethane	< 1.00	U	< 1.00	U	< 1.00	U
Bromoform	< 1.00	U	< 1.00	U	< 1.00	U
Bromomethane	< 1.00	U	< 1.00	U	< 1.00	U
Carbon Disulfide	**18.2**		**4.48**		**3.77**	
Carbon Tetrachloride	**0.4**		**0.5**		**0.37**	
Chlorobenzene	< 1.00	U	< 1.00	U	< 1.00	U
Chloroethane	< 1.00	U	< 1.00	U	< 1.00	U
Chloroform	**3.32**		**2.33**		< 1.00	U
Chloromethane	**11.6**		< 1.00	U	**1.4**	
Cis-1,2-Dichloroethene	< 1.00	U	< 1.00	U	< 1.00	U
cis-1,3-Dichloropropene	< 1.00	U	< 1.00	U	< 1.00	U
Cyclohexane	**117**		< 1.00	U	**1.38**	
Dibromochloromethane	< 1.00	U	< 1.00	U	< 1.00	U
Dichlorodifluoromethane	**1.56**		< 1.00	U	**2.06**	
Ethanol	**571**		**6.72**		**5.78**	
Ethyl acetate	< 1.00	U	< 1.00	U	< 1.00	U
Ethylbenzene	**12.3**		**3.41**		**2.92**	
Heptane	**347**		**1.07**		**2.78**	
Hexachlorobutadiene	< 1.00	U	< 1.00	U	< 1.00	U
Hexane	**66.9**		< 1.00	U	**3.84**	
Isopropylalcohol	**9.31**		**4.27**		**2.08**	
Isopropylbenzene	**3.72**		< 1.00	U	< 1.00	U
m,p-Xylene	**32.7**		**13**		**9.42**	
Methyl Ethyl Ketone	**50.4**		**7.75**		**2.52**	
Methyl tert-butyl ether(MTBE)	< 1.00	U	< 1.00	U	< 1.00	U
Methylene Chloride	< 1.00	U	< 1.00	U	< 1.00	U
n-Butylbenzene	< 1.00	U	< 1.00	U	< 1.00	U
o-Xylene	**18**		**4.64**		**3.09**	
Propylene	**165**		**29.8**		**65.7**	
sec-Butylbenzene	**2.25**		< 1.00	U	< 1.00	U
Styrene	**2**		< 1.00	U	< 1.00	U
Tetrachloroethene	**0.66**		**0.65**		**0.25**	
Tetrahydrofuran	< 1.00	U	< 1.00	U	< 1.00	U
Toluene	**39.5**		**8.96**		**10.5**	
Trans-1,2-Dichloroethene	< 1.00	U	< 1.00	U	< 1.00	U
trans-1,3-Dichloropropene	< 1.00	U	< 1.00	U	< 1.00	U
Trichloroethene	**0.26**		< 0.25	U	< 0.25	U
Trichlorofluoromethane	**9.55**		**11.6**		**1.64**	
Trichlorotrifluoroethane	< 1.00	U	< 1.00	U	< 1.00	U
Vinyl Chloride	< 0.25	U	< 0.25	U	< 0.25	U
Total BTEX	**122.8**		**33.15**		**32.0**	

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
U=analyte not detected at or above the level indicated
NS=this indicates that no regulatory limit has been established for this analyte

Appendices

A. Previous Investigation

Hydro Tech Environmental, Corp.

Main Office
77 Arkay Drive, Suite G
Hauppauge, New York 11788
T (631) 462-5866 • F (631) 462-5877

NYC Office
15 Ocean Avenue, 2nd Floor
Brooklyn, New York 11225
T (718) 636-0800 • F (718) 636-0900

www.hydrotechenvironmental.com

Phase I Environmental Site Assessment Report

383 Manhattan Avenue
Brooklyn, New York

Prepared For:

Superior Homes
191-15 Jamaica Avenue
Hollis, New York 11423

December 17, 2015

Hydro Tech Job No. 150299

Phase I Environmental Site Assessment Report

383 Manhattan Avenue
Brooklyn, New York

December 17, 2015

Hydro Tech Environmental, Corp. appreciates the opportunity to work Superior Homes at the property located at 383 Manhattan Avenue in Brooklyn, New York.

Should you require any additional information or have any comments regarding the contents of this report, please feel free to contact our office at your convenience.

We declare that, to the best of my professional knowledge and belief, Hydro Tech personnel meet the definition of an environmental professional as defined in §312.10 of 40 C.F.R. Part 312, and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

Very Truly Yours,

Hydro Tech Environmental, Corp.

ENVIRONMENTAL ASSESSMENT ASSOCIATION
MARK E. ROBBINS
EAA
Certified Environmental Inspector
Member EA-MERIZOTA
EST 1991

X_____
A.J. Infante
Project Geologist

X_____
Erica Johnston
Senior Project Manager

X_____
Mark E. Robbins, C.P.G., C.E.I.
Principal

TABLE OF CONTENTS PAGE

1.0 Executive Summary **1**
2.0 Introduction & Scope of Work **2**
2.1 Introduction 2
2.2 Scope of Work 2
2.3 Limitations and Exceptions & Data Gaps 3
3.0 Subject Property Description **4**
3.1 Subject Property Vicinity 4
3.2 Subject Property Description 4
3.3 Adjacent Land Use 4
3.4 Proximity to Environmentally Sensitive Areas 4
3.5 Environmental Setting 5
4.0 Historical Use **7**
4.1 Sanborn Maps 7
4.2 City Directory Search 7
4.3 Previous Studies 7
4.4 Previous Owners 7
4.5 Historic Aerials 8
4.6 Historical Use Summary 8
5.0 Records Review **9**
5.1 Environmental Databases 9
5.2 Municipal Records 11
6.0 Site Reconnaissance **13**
7.0 Client / User-Provided Information & Interviews **15**
7.1 Client / User-Provided Information 15
7.2 Interviews 15
8.0 Conclusions **17**
9.0 Credentials & Declaration **17**
9.1 Credentials 18
9.2 Environmental Professional Declaration 18
10.0 References **19**
11.0 Exclusions & Disclaimers **20**

Figures

1. Site Plan

Appendices

A. Photographs
B. Sanborn Maps
C. City Directory Search
D. Database Search Results
E. NYCOER E-Designation Summary Table
F. Municipal Records
G. Phase I Questionnaire
H. Credentials

1.0 EXECUTIVE SUMMARY

Hydro Tech Environmental, Corp. (Hydro Tech) has performed a Phase I Environmental Site Assessment (Phase I ESA) at the Subject Property located at 383 Manhattan Avenue in Brooklyn, New York. The Phase I ESA was performed to meet or surpass the American Standard of Testing Materials Standard for Phase I Environmental Site Assessments E 1527-13. The purpose of the assessment was to characterize the environmental quality of the Subject Property through the identification of Recognized Environmental Conditions. All work was performed under the supervision of a Hydro Tech Project Manager and under the guidance of a Hydro Tech geologist.

The results of the Phase I Environmental Site Assessment are contained in this report. The Phase I Environmental Site Assessment has revealed the following Recognized Environmental Condition(s) at the Subject Property:

- The presence of a Hazardous Materials E-Designation on the Subject Property (§4.1, §6.0);

No effort has been made to perform any investigation beyond what is included in this Report. The observations and conclusions included herein summarize the results of the Phase I Environmental Site Assessment up to the date of the fieldwork and the date of this Report.

The following sections provide the details and specific information pertaining to the various components of the Phase I Environmental Site Assessment.

2.0 INTRODUCTION & SCOPE OF WORK

2.1 Introduction

Hydro Tech Environmental, Corp. (Hydro Tech, HTE, the "*Preparer*") has been retained by Superior Homes (the "*User*") to perform a Phase I Environmental Site Assessment (ESA, Assessment) at the property located at 383 Manhattan Avenue in Brooklyn, New York. The User is the "*Current Owner*" of the property. The Phase I was prepared for due diligence purposes towards a future development of the property. The property will hereafter be referred to as the "*Subject Property*".

The purpose of a Phase I Assessment is to characterize the environmental quality of the Subject Property through the determination of the presence of Recognized Environmental Conditions (RECs). As defined by the American Society of Testing and Materials (ASTM), a REC is, "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." (ASTM E 1527-13, §1.1.1). As defined by the ASTM, a Controlled Recognized Environmental Condition (CREC) is, "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls." (ASTM E 1527-13, §3.2.18). As defined by the American Society of Testing and Materials (ASTM), a HREC is, "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls" (ASTM E 1527-13, §3.2.42). Adjacent and surrounding sites are evaluated as part of a Phase I Assessment with regards to conditions that may indicate high probability of the migration of hazardous substances or petroleum products to a property. As defined by ASTM, migrate/migration is, "the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface." (ASTM E 1527-13, §3.2.56).

To this end, Hydro Tech has collected information through a number of sources including, but not limited to: a property and neighborhood inspection by trained environmental personnel, a review of historical and current information collected from various federal, state, county and municipal agencies and personnel interviews with Site representatives. Recommendations are offered where prudent. Firms subcontracted by Hydro Tech and the User may have collected some information used in this report. Some or all of the Assessment has been performed or supervised by environmental professionals as required by 40 C.F.R. Part 310. The procurement of Title and Judicial Records for Environmental Liens and/or Activity and Use Limitations ("AULs") by HTE is beyond the scope of this practice (ASTM E 1527-13) and investigation.

2.2 Scope of Work

The general activities of the Phase I Assessment included the performance of the following tasks:

1. A detailed inspection of the Site and its general vicinity.
2. A review of all reasonably ascertainable regulatory agency documents.
3. A neighborhood hazardous waste survey utilizing Federal and State databases.
4. A review and evaluation of reasonably ascertainable geologic and hydrogeologic reference materials.
5. Interviews with representatives of the Site.
6. The preparation of a Phase I Environmental Site Assessment Report.

The Phase I ESA was performed in accordance with ASTM E 1527 except where noted in Section 2.3 and Hydro Tech's Proposal. As required by ASTM, the User has supplied information that has been relied upon by Hydro Tech in the rendering of findings, conclusions and opinions, except where indicated in Section 2.3 or elsewhere in the report.

2.3 Limitations and Exceptions & Data Gaps

In addition to those items outlined by ASTM E 1527, asbestos, radon, lead-based paint and lead in water were also considered in the scope of work. While this Phase I Assessment provides information with respect to both asbestos and lead-based paint, the presence of these materials can only be confirmed through the collection and analysis of bulk samples.

This report is not intended to serve as a full or complete asbestos survey or lead-based paint survey. These surveys are commonly performed for the purpose of building demolition/renovation or the recognition/identification of any building materials that may contain asbestos or lead-based paint and it is recommended that they be performed prior to any such work.

Business Environmental Risks have not been considered and are not included in the scope of work. This Phase I Assessment is not intended to address the soil/groundwater quality at the Subject Property for general Site characterization or waste disposal purposes. This Phase I Assessment in not intended to evaluate the fair market price of the property if it is not affected by hazardous or petroleum products.

Portions of this report have been prepared utilizing information provided by third party sources or the user. As such, Hydro Tech relies upon these sources and has recorded findings, conclusions and opinions based upon this information. Hydro Tech cannot attest to the accuracy of this information but where possible had attempted to verify the information.

This Phase I ESA Report is not intended to serve or be construed as a regulatory compliance report for the property. No legal opinions are provided with this report.

It should be noted that the United States Environmental Protection Agency (USEPA) has determined in their final ruling (40 C.F.R. Part 312, Standards and Practices for All Appropriate Inquires) of December 30, 2013 that "persons conducting all appropriate inquiries may use the procedures included in the ASTM E 1527-13 standard to comply with today's final rule." Therefore, while all appropriate inquiry could be considered satisfied as this ESA was prepared in exceedances(s) of the ASTM E 1527-13 standard, persons attempting to utilize this ESA while seeking one of the Comprehensive Environmental Response, Compensation, and Liability Act's (CERCLA's) Limited Liability Protections (LLPs) must note that; a) they will not maintain CERCLA liability protections unless they also comply with all of the continuing obligations established under the statute that are beyond the scope of this practice (ASTM E 1527-13) and investigation; and b) in order to qualify for one of the CERCLA LLPs, the person commissioning the Phase I Environmental Site Assessment must have provided site-specific information (if available) to Hydro Tech before the date of this ESA, otherwise a determination could be made that all appropriate inquiry is not complete.

As defined by ASTM, a Data Gap is defined as an inability to obtain information during the Phase I process, as required under the Standard, despite a good faith effort by the Environmental Professional to obtain this information. The Phase I ESA report must contain information pertaining to Data Gap(s) and evaluate their relative significance.

The following table provides a breakdown of the Data Gap(s) encountered and their relative significance.

Data Gap	**Significance**
Site History – not conducted to time of first development and/or 5 year intervals.	Low – unlikely to alter conclusions due to findings of other resource(s).
No environmental lien provided.	Low – unlikely to alter conclusions due to findings of other resource(s).
Municipal Records – FOIAs not returned as of date of report.	Unknown – Any FOIA responses that alter the conclusions of the report will be provided upon receipt.

Due to other historical information obtained over the course of this investigation, Hydro Tech does not consider these data failures/data gaps significant, as they appear unlikely to have affected potential Recognized Environmental Conditions at the Subject Property.

3.0 SUBJECT PROPERTY DESCRIPTION

3.1 Subject Property Vicinity

The Subject Property is located on the west side of Manhattan Avenue, between Frost Street to the north and Withers Street to the south, in the borough of Brooklyn, New York. The borough of Brooklyn is situated in the southeast portion of New York City.

The vicinity of the Subject Property consists of manufacturing, commercial and residential properties. The ground surfaces in the vicinity of the Site consist of asphalt, bare soil and concrete.

3.2 Subject Property Description

The Subject Property is identified as 383 Manhattan Avenue, Brooklyn, NY. The Subject Property is approximately 2,500 square feet in area and was developed with a 2.5-story unoccupied residential building during the initiation of the Phase I and at the time of the Site Inspection (the structure has reportedly been razed since that time). The former building contained a basement and was located in the east portion of the Subject Property, along Manhattan Avenue. The building was reportedly heated by a natural gas-fired boiler. **Appendix A** provides photographs of the Subject Property.

Access to the Subject Property is via Manhattan Avenue to the east. The Subject Property is reportedly not connected to any utility services due to ongoing demolition and redevelopment activities. It is unknown where utilities historically entered the Subject Property.

The topography of the Subject Property and its vicinity is generally level. **Figure 1** provides a Site Plan.

3.3 Adjacent Land Use

The Subject Property is located in a residential and commercial area. The following properties were identified immediately adjacent to the Subject Property:

Direction	Adjacent Parcel	Surrounding Parcels
North	Vacant	Residential / commercial
South	3-story residential	Residential / commercial
East	1-story unknown commercial (across Manhattan Avenue)	Residential / commercial
West	3-story residential	Residential / commercial / vacant

Hydro Tech does not believe that the present uses of any adjacent properties identified above should impact upon the environmental quality of the Subject Property.

A New York City Office of Environmental Remediation (NYCOER) Hazardous Materials E-Designation (E-138) exists on the Subject Property and surrounding properties to the north and west. The E-Designation was assigned to the Subject Property due to the historic presence of underground storage tanks (USTs) on the adjacent property located to the north (Block 2738, Lot 21). The presence of an E-Designation on the Subject Property should be considered a REC and is further discussed in Section 5.0. The historic presence of USTs on the adjacent property is also further discussed in Section 5.0.

3.4 Proximity to Environmentally Sensitive Areas

The results of the Site inspection and an evaluation of the United States Geological Survey (USGS) 7.5 Minute Topographic Map containing the properties indicate that there is one sensitive receptor present within a ⅛-mile radius of the Subject Property: the School Settlement Association, located south of the Subject Property. Hydro Tech does not believe that the Subject Property should adversely impact upon the sensitive receptors.

3.5 Environmental Setting

The Site is located in northwestern portion of Brooklyn, New York. The elevation of the Subject Property is approximately 16 feet above mean sea level (USGS 7.5-Minute Brooklyn, New York Quadrangle, 2013).

Brooklyn, New York is located in the western portion of Long Island. Long Island consists of a wedge-shaped mass of unconsolidated deposits that overlie ancient basement rock.

The thickness of these deposits ranges from approximately 100 feet on the Island's north shore to approximately 2,000 feet in some portions of the south shore. These deposits contain ground water that is the sole source of drinking water for the Island's over 3.1 million residents.

The major landforms of Long Island of importance to the hydrologic system are the moraines and outwash plains, which originated from glacial activity. The moraines represent the farthest extent of the glacial advances. The moraines consist of till, which is a poorly sorted mixture of sand, silt, clay, gravel and boulders. The till is poor to moderately permeable in most areas. Outwash plains are located to the south of the moraines. The outwash plains were formed by the action of glacial melt water streams, which eroded the headland material of the moraines and laid down deposits of well-sorted sands, silts and gravels. These outwash deposits have a moderate to high permeability.

The **Upper Glacial Aquifer** is the uppermost hydrogeologic unit. This aquifer encompasses the moraine and outwash deposits, in addition to some localized lacustrine, marine and reworked materials. A relatively high horizontal hydraulic conductivity and a low vertical hydraulic conductivity characterize the outwash plain portion of this unit. Since the water table is situated in the Upper Glacial Aquifer.

The **Magothy Formation** directly underlies the Upper Glacial Aquifer in the vicinity of the site. This formation is a Cretaceous coastal-shelf deposit, which consists principally of layers of sand and gravel with some interbedded clay. This formation ranges from moderate to highly permeable. A clay layer in some parts of Long Island confines the uppermost portion of the aquifer. The Magothy is Long Island's principal aquifer for public water supply. The United States Environmental Protection Agency (USEPA) has classified the Long Island aquifer system as a sole source aquifer.

The **Raritan Formation** is the deepest unit and rests directly above the bedrock units. This formation is comprised of a sand member (**Lloyd Aquifer**) and a clay member (**Raritan Clay**). The Lloyd sand extends southward from Flushing Bay to the Atlantic Ocean. The thickness of the sand member ranges in depth from 200 to 800 feet below sea level and increases in thickness to the southeast. The clay member acts as an aquitard confining the lower Lloyd aquifer between the clay and the underlying bedrock.

Long Island has a humid, temperate climate that is strongly influenced by the Long Island Sound and the Atlantic Ocean. These bodies of water temper extremes of heat in summer and cold in winters. Climate affects the formation of soil through its influence on chemical, biological and physical processes. The amount and content of rainwater, as it percolates through the soil, chemically alters the composition of the soils. Chemical and biological processes are also affected by temperature changes. The physical weathering of the soil and rocks is affected by freezing.

The soils of Long Island are relatively young, having developed since the last recession of glaciation approximately 25,000 years ago. Over thousands of years, the minerals in the bedrock debris slowly decayed and disintegrated, providing the necessary substrate to support biological activity. Rock-forming minerals such as feldspars and micas, that are rich in potassium and aluminum, release their important elements as they are converted to clays. Soils formed in glacial drift are commonly known as loam, a mixture of sand, silt and clay.

The soils of Long Island formed three distinct soil horizons or zones on glacial deposits. The lowest horizon, designated as the C-horizon, is similar in composition to the transported glacial rock debris. The B-horizon is above the C-horizon and consists of sediments that have been considerably altered from their C-horizon source. Vadose zone water percolates through the B-horizon, carrying compounds of clay, iron, aluminum oxides, carbonates and humic acid. These materials are redeposited within the lower portions of the B-horizon, and form the zone of accumulation. The zone of accumulation may also be the zone of ground water saturation.

The zone of leaching is found in the A-horizon, which is the upper, organic-rich and life sustaining layer with abundant roots and organic matter at the surface. The A-horizon is distinct from the underlying B & C-horizons because it is darker and more friable.

Differentiation in soil horizons are the result of various soils-forming processes such as the physical breakdown of particles, the leaching of salts, the accumulation of organic matter and the chemical weathering of primary minerals. The chemical weathering of primary minerals occurs through processes such as chelation, the formation of silicate clay minerals and the translocation of silicate clay minerals by percolating water from one horizon to another and the accumulation of iron.

According to the USGS Long Island Depth to Water Viewer, the depth to groundwater at the Site is approximately 7 feet. According to the USGS Groundwater Conditions Map, the regional groundwater flow direction in the vicinity of the Site is toward the west in the direction of the East River.

4.0 HISTORICAL USE

4.1 Sanborn Maps

Sanborn Fire Rate Insurance Maps for the Subject Property and its vicinity dated 1887, 1905, 1916, 1942, 1951, 1965, 1978 through 1983, 1986 through 1989, 1991, 1993, 1995, 1996, and 2001 through 2007 were obtained from EDR and evaluated in order to establish the history of the Site. **Appendix B** provides a copy of the Sanborn Fire Rate Insurance Maps:

Date	Subject Property Shown As	Surrounding area
1887	2-story residential building located in eastern portion of property; 2-story detached ancillary structure located in the center portion of the property; 2-story residential structure located in the western portion of the property	Residential/commercial/vacant
1905 - 1916	2.5-story residential building located in the eastern portion of the property; approximately 2 attached 1-story ancillary structures (1 labeled shed, 1 labeled junk) located in the center portion of the property; 1 detached 2-story residential building located in the western portion of the property	Residential/commercial
1942 - 1951	2.5-story residential building located in the eastern portion of the property; approximately 3, 1-story attached ancillary structures (1 labeled shed, 1 labeled junk) located in the center portion of the property; 1 detached 1-story ancillary building located in the western portion of the property	Residential/commercial; Gasoline tank depicted on adjacent property to north (385-389 Manhattan Avenue)
1965 - 2007	2.5-story residential building located in the eastern portion of the property	Residential/commercial

A gasoline tank was identified in the eastern portion of the adjacent building to the north between 1942 and 1951. The historic presence of a gasoline tank on the adjacent property was further evaluated and is discussed in Section 5.0.

4.2 City Directory Search

In order to further assess the property's history, available City Directory files were obtained from EDR for review. The City Directories document known occupants of specific properties and sorted by individual addresses. **Appendix C** provides a copy of the City Directory Search.

The following provides a listing of all documented usages of the address 383 Manhattan Avenue:

Date	Use of Subject Property	Surrounding Property Use
2005	No Current Listing	Residential/commercial

4.3 Previous Studies

Hydro Tech requested copies of any available historical environmental reports associated with the Subject Property. Hydro Tech was not provided with any copies of previous studies or other environmental reports pertaining to the Subject Property.

4.4 Previous Owners

According to the property listing on Property Shark, documents on file with the NYC Automated City Register Information System (ACRIS) database and the New York City Department of City Planning, the following provides a list of historical owners of the Site:

Year	Name Of Previous Owner(s)
Unknown - 1983	Gerges Realty Corp
1983 – 2015	Pagan, Yvette
2015 – Present	Manhattan Properties NY LLC

4.5 Historic Aerials

Publically available historical aerial photographs for the Subject Property and its vicinity dated 1954, 1966, 1980, 1994, 2004, 2006, 2008, 2009, 2011, 2012 and 2013 were reviewed and evaluated. The following summary provides a summary of this evaluation.

Date	Subject Property Shown As	Surrounding area
1954 - 2013	Developed with 1 building located on the eastern portion of the site	Developed with residential and commercial buildings

4.6 Historical Use Summary

Based on a review of available information provided and/or obtained for the Subject Property as of the date of this ESA, it appears that the Subject Property was developed with its most recent structure (razed subsequent to the Phase I Site Inspection) prior to 1887. From 1887 to at least 1951, the Subject Property was also developed with approximately 2 to 4 ancillary structures and 1 additional residential structure located in the center and western portion of the property. The additional structures were razed sometime between 1951 and 1965. The historic use(s) of the Subject Property were further investigated and the findings are presented in this report.

5.0 RECORDS REVIEW

5.1 Environmental Databases

Federal, State, Local and Tribal hazardous waste databases were reviewed with respect to the Subject Property and surrounding properties. ASTM E 1527 specifies the search area for each database. In addition, all orphan sites (those without adequate information for mapping purposes) listed in the database search were also reviewed, evaluated and incorporated (as needed). **Appendix D** provides a copy of the Database Search Results. The following databases, with the appropriate search radius, were reviewed:

ASTM Standard Environmental Record Source	Approx. ASTM Minimum Search Distance (MSD)	Number of Mapped Sites within MSD	Number of Orphan Sites
1. NPL (Superfund) *National Priorities List*	1.0 Mile	1	0
2. Delisted NPL Site *Delisted National Priorities List Site*	0.5 Mile	0	0
3. CERCLIS *Comprehensive Environmental Response Compensation & Liability Information System*	0.5 Mile	0	0
4. CERCLIS NFRAP *CERCLIS No Further Remedial Action Planned Site*	0.5 Mile	1	0
5. RCRA-TSD CORRACTS *Resource Conservation & Recovery Treatment/Storage/Disposal Facility Subject to Corrective Action*	1.0 Mile	1	0
6. RCRA-TSD *Resource Conservation & Recovery Treatment/Storage/Disposal Facility (Non-Corrective Action)*	0.5 Mile	0	0
7. RCRA-LG *Resource Conservation & Recovery Large Quantity Generator*	Site & Adjoining	0	0
8. RCRA-SG *Resource Conservation & Recovery Small Quantity Generator*	Site & Adjoining	0	0
9. ERNS *Emergency Response Notification System*	Property Only	0	0
10. Local / State / Tribal UST, PBS *Registered Storage Tanks*	Site & Adjoining	1	0
11. Local / State / Tribal LTANKS *Leaking Underground Storage Tanks*	0.5 Mile	29	0
12. State Spill Incidents *NYSDEC Spill Sites*	0.125 Mile	19	0
13. Local / State / Tribal SWF *Solid Waste Facility / Landfill*	0.5 Mile	0	0
14. Local / State / Tribal CERCLIS *Inactive Hazardous Waste Disposal Site*	0.5 Mile	3	0
16. Inst. / Engineering Controls *Registry of Institutional and/or Engineering Controls*	Property Only	0	0
17. Voluntary Cleanup Program Sites *Local / State / Tribal VCP Sites*	0.5 Mile	0	0
18. Brownfield Sites *Local / State / Tribal Brownfield Sites*	0.5 Mile	6	0
19. Non-ASTM Record Source(s)	Not Applicable	No MSD has been established by ASTM for these sources	

The review and evaluation of the above Federal and State/Tribal/Local Databases indicates that the Subject Property is identified in New York E-Designation database.

The Subject Property is listed in the New York E-Designation database with the E-Number E-138 as Lot 24, Block 2738, 383 Manhattan Avenue, Brooklyn, New York. The listing is associated with the presence of a UST on the adjacent property. As previously discussed, the presence of an E-Designation on the Subject Property should be considered a REC. The E-Designation Summary Table which includes the Subject Property listing (E-138) is presented in **Appendix E**.

Nineteen (19) properties are listed in the New York Spills database within a ⅛-mile of the Subject Property including the Subject Property. One (1) adjacent property, located immediately to the north at 387 Manhattan Avenue, was identified in the NY Spills database. The listing identifies the property as "Intermaster" and lists the site's Spill Number as 0711236. The Spill was reportedly closed in March 2008; the New York State Department of Environmental Conservation (NYSDEC) memo details the removal at least 1 out-of-service 550-gallon gasoline UST. Approximately 19 tons of soil were excavated during the UST(s) removal and post-excavation endpoint soil samples did not identify additional soil contamination. A Closure Report was submitted on March 27, 2008 and the Spill Number was subsequently closed. The adjacent Spill site should not impact upon the environmental quality of the Subject Property due to the site's current regulatory status, its location relative to groundwater flow direction and the nature of the spill.

Of the remaining 18 NY Spills located within a ⅛-mile of the Subject Property, 3 are listed as open. The open Spill cases are listed as follows:

- On June 28, 1991, an electric distribution feeder was accidentally struck during construction along the Brooklyn-Queens Expressway (BQE) at Meeker Avenue and Leonard Street. The feeder is located cross-gradient to the Subject Property and is identified as Feeder #61. An unknown amount of dielectric fluid was spilled into an adjacent excavation and the Spill No. 9103785 was assigned. The most recent update was on October 16, 2014, which states that soil probes and a groundwater monitoring well was installed. The current status of the Spill No. is unknown.
- Spill No. 1302575 was assigned to the property located at 108 Bayard Street (cross-gradient to the Subject Property). The spill is associated with a caller complaint in June 2013 from a tenant of the Spill property. The complaint is in reference to a flooded work area reportedly due to the cleaning of graffiti on a roll-up door. The current status of the spill is unknown.
- Spill No. 9703488 was assigned to the property located at 76 Richardson Street (located cross-gradient to the Subject Property). The spill was opened in June 1997 due to the presence of free-phase petroleum product in groundwater monitoring wells located on the property. Various forms of remedial investigations/actions have taken place at the property including soil and groundwater investigations, hotspot excavations and product recovery via sorbent socks and Enhanced-Fluid Recovery (EFR). Quarterly groundwater monitoring has occurred and was last reported in August 2014. The current status of the spill is unknown.

None of the identified New York Spill sites should impact upon the environmental quality of the Subject Property due to various factors such as their location relative to groundwater flow direction, their current regulatory status, the nature of the spills and/or their proximity to the Subject Property.

One (1) adjacent property, 387 Manhattan Avenue, was identified in the Underground Storage Tank (UST) database. The property is listed in the Petroleum Bulk Storage (PBS) program with the ID No. 2-610788 and is listed as Unregulated/Closed. The listing is associated with 2 removed USTs; the tanks are listed as a 750-gallon steel gasoline UST and a 550-gallon steel gasoline UST. The property was previously discussed and identified in the NY Spills database. The identified UST site should not impact upon the environmental quality of the Subject Property due to various factors such as its location relative to groundwater flow direction, its current regulatory status and/or the nature of the listing.

Twenty-nine (29) Leaking Underground Storage Tank (LTANK) sites are listed in the database and are located within ½-mile of the Subject Property. No LTANK sites are situated adjacent to the Subject Property. Twenty-eight (28) of the 29 LTANK sites have been cleaned up to the satisfaction of the NYSDEC and are considered closed; the remaining one LTANK site is active and is located over 1,000 feet to the north-northeast and upgradient of the Subject Property. None of the LTANK sites should impact upon the environmental quality of the Subject Property due to various factors such as their location relative to groundwater flow direction, their current regulatory status, the nature of the spills and/or their proximity to the Subject Property.

One (1) National Priorities List (NPL) site is listed in the database and is located within 1-mile of the Subject Property. The NPL site is located downgradient of the Subject Property and should not impact upon its environmental quality.

One (1) Comprehensive Environmental Response, Compensation and Liability Information System – No Further Remedial Action Planned (CERCLIS-NFRAP) site is listed in the database and is located within 1-mile of the Subject Property. The CERCLIS site is located downgradient of the Subject Property and should not impact upon its environmental quality.

One (1) Resource Conservation & Recovery Treatment/Storage/Disposal Facility Subject to Corrective Action (RCRA-TSD CORRACTS) site is listed in the database and is located within 1-mile of the Subject Property. The RCRA-TSD CORRACTS sites is located downgradient of the Subject Property and should not impact upon its environmental quality.

Three (3) Inactive Hazardous Waste Disposal Sites (IHWDS) are located within ½-mile of the Subject Property. Two (2) IHWDS are located downgradient of the Subject Property; 1 IHWDS is located cross-gradient of the Subject Property. None of the IHWDS should impact upon the environmental quality of the Subject Property.

Six (6) Brownfield sites are listed in the database and located within ½-mile of the Subject Property. Each of the Brownfield sites is located downgradient of the Subject Property and should not impact upon its environmental quality.

A vapor encroachment screening consisting of a Tier 1 evaluation of Potential Vapor Encroachment Conditions (PVEC) was performed in accordance with ASTM E2600-10. A Tier 1 evaluation determines the presence or likely presence of a VEC based upon Federal, State and Local database search results and includes an evaluation of distance, depth to water, potential migration pathways, groundwater flow direction, hydraulic barriers, soil characteristics and other factors impacting soil vapor migration. The results of the Tier 1 evaluation indicate there are no PVECs at the Subject Property.

None of the remaining properties identified in the databases, including Orphan Sites, should impact upon the environmental quality of the Subject Property.

5.2 Municipal Records

FOIA requests were issued to the following municipal agencies with respect to the Subject Property. All reasonably ascertainable municipal records are provided with this report. **Appendix F** provides copies of the municipal documents.

- New York City Department of City Planning
- New York City Department of Building
- New York City Department of Housing Preservation and Development
- New York City Department of Health
- New York City Bureau of Fire Department
- New York State Department of Environmental Conservation
- New York City Department of Environmental Protection

New York City Department of City Planning

A FOIA request was submitted to the New York City Zoning Department. The Tax Map revealed that the Subject Property consists of one lot which is identified as the following:

- Block 2738, Lot 24: 383 Manhattan Avenue, Brooklyn, NY 11211

The New York City Zoning Department indicated that the Subject Property is zoned for "M1-2/R6". The Subject Property is listed with a Hazardous Materials "E" Designation (E-138), which as been identified as a REC.

New York City Department of Building

All obtainable FOIA documents were obtained via written request or other means. A FOIA request was submitted to the New York City Department of Building (NYCDOB). The Subject Property is defined as by the NYCDOB and is identified as the following:

- Block 2738, Lot 24: 383 Manhattan Avenue, Brooklyn, NY 11211

The NYCDOB file for the Subject Property has 6 complaints, 1 DOB violation, 2 Environmental Control Board (ECB) violations and 8 job listings. The 8 jobs are related to the installation of a fire-protection sprinkler system, proposed building plans, chimney alterations and building demolition.

The NYCDOB does not list records for COs at the Subject Property.

New York City Department of Housing Preservation and Development

A FOIA request was submitted to the New York City Department of Housing Preservation and Development (NYCHPD). The NYCHPD indicated that there are no open violations on file for the Subject Property.

New York City Department of Health

A FOIA request was submitted to the New York City Department of Health (NYCDOH). As of the date of this report, the NYCDOH has not provided any information pertaining to our FOIA request. Any information provided by the NYCDOH will be provided as soon as it has been received and evaluated.

New York City Bureau of Fire Prevention

A FOIA request was submitted to the New York City Bureau of Fire Prevention (NYCBFP). As of the date of this report, the NYCBFP has not responded to our search request. Any information provided by the NYCBFP will be provided as soon as it has been received and evaluated.

New York State Department of Environmental Conservation

A FOIA request was submitted to the New York State Department of Environmental Conservation (NYSDEC). As of the date of this report, the NYSDEC has not responded to our search request. Any information provided by the NYSDEC will be provided as soon as it has been received and evaluated.

New York City Department of Environmental Protection

A FOIA request was submitted to the New York City Department of Environmental Protection (NYCDEP). As of the date of this report, the NYCDEP has not responded to our search request. Any information provided by the NYCDEP will be provided as soon as it has been received and evaluated.

6.0 SITE RECONNAISSANCE

Ms. Erica Johnston of Hydro Tech performed the site reconnaissance portion of the Phase I Assessment on December 9, 2015. The weather during the inspection was sunny and approximately 50 degrees Fahrenheit.

Hydro Tech inspected all accessible portions of the Subject Property; however, due to its dilapidated condition, the Subject Property structure was largely inaccessible. The following pertinent information was obtained during the Subject Property Reconnaissance:

1. Industrial Processes

   No industrial processes were observed at the Subject Property. No evidence of historical industrial processes was observed at the Subject Property.

2. Suspect Asbestos-Containing Materials

   No visual evidence of suspect asbestos containing material (ACM) was identified at the Subject Property.

3. Suspect Lead-Based Paint

   No visual evidence of lead-based paint was identified at the Subject Property.

4. Lead in Water

   The City of New York is provided with potable water from a series of reservoirs located to the north and northwest of the city. The City of New York is responsible for maintaining the quality of this potable water. The Subject Property is served by public water.

5. Drum Storage Areas

   No current or former drum storage areas were observed at the Subject Property.

6. Storage Tanks

   No visual evidence of underground storage tanks (USTs) or aboveground storage tanks (ASTs) was identified at the Subject Property. No evidence of former ASTs or USTs was identified at the Subject Property.

7. Subsurface Drainage Structures/Drains/Sumps

   No subsurface drainage structures, such as dry wells, leaching pools or cesspools were observed at the Subject Property. No evidence of former subsurface drainage structures was observed at the Subject Property.

   No evidence of current or former septic/waste water/storm water discharge systems is identified at the Subject Property.

   No floor drains were observed at the Subject Property. No evidence of former floor drains was identified at the Subject Property.

   No sumps were observed inside the building at the Subject Property. No evidence of former sumps was identified inside the building at the Subject Property.

8. PCB-Containing Equipment

   No suspect PCB-containing equipment was identified at the Subject Property.

9. Monitoring / Potable Water Wells

   No potable water wells were observed at the Subject Property.

The Subject Property does not utilize wells for the generation of potable water.

No monitoring wells were identified on the adjacent properties.

No monitoring wells were identified at the Subject Property.

10. Mold

No visual evidence of mold was identified at the Subject Property.

11. Pits, Ponds, or Lagoons

No waste disposal pits, ponds or lagoons were observed at the Subject Property. No evidence of former pits, ponds, pools of liquid or lagoons were observed at the Subject Property.

12. Wetlands

No evidence of wetlands or wetlands growth is identified at the Subject Property. The location of the Subject Property and its vicinity do not appear in the USA National Wetlands Inventory.

13. Staining/Stressed Vegetation

No significant staining was identified at the Subject Property. No stressed vegetation was observed at the Subject Property.

14. Fill / Land Disposal / Solid Waste

No visual areas of fill or evidence of land disposal of solid waste material(s) were observed at the Subject Property.

15. Engineering Controls

No engineering controls were noted at the Subject Property.

16. Odors/Air Emissions

No odors indicative of a petroleum, chemical or hazardous substance spill or release were identified at the Subject Property. No evidence of air emissions or air emission equipment was identified at the Subject Property.

17. Hazardous Substance / Petroleum Containers

No evidence of suspect hazardous substance or other petroleum containers were identified at the Subject Property.

18. Radon

USEPA's recommended action level is 4 picoCuries/liter and the average radon gas concentrations predicted in the Brooklyn area is 1.3 picoCuries/liter. Since Brooklyn is located in a Low Radon Potential area, radon gas should not represent a potential environmental concern that would warrant the sampling for radon gas at the Subject Property.

7.0 CLIENT / USER-PROVIDED INFORMATION & INTERVIEWS

7.1 Client / User-Provided Information

During the course of the Phase I Assessment, the Client/User Questionnaire is required to provide specific information. The following provides a breakdown of this information.

1. The client/user provided no records to Hydro Tech's request for information associated with Environmental Liens or Activity and Use Limitations against the property that may have been filed or listed under federal, tribal, state or local law.

2. The client/user reported no specialized or actual knowledge or experience related to any potential Recognized Environmental Conditions at the Subject Property or nearby properties.

3. The client/user reported that the purchase price of the property does not reflect the fair market value; however, it has not been concluded if it has been adjusted due to the known or potential presence of on-site contamination.

4. Other than provided in Section 7.2, the client/user reported no commonly known information or information within the local community regarding past use(s) of the property (including the storage and/or release of chemicals, hazardous substances, petroleum products, etc.) that could have affected the environmental integrity of the subject site.

5. The client/user could not confirm whether no environmental contamination or cleanups have occurred at the property in the past.

6. Hydro Tech Environmental provided the Questionnaire for the client/user to complete. The questionnaire is provided in **Appendix G**.

7.2 Interviews

During the course of the Phase I Assessment, interviews were conducted with key site personnel with respect to the operation and history of the Subject Property.

Site Owner and/or Representative

- Yaniv Levy – Managing member

The following information was provided:

- Mr. Levy reported that subsequent to the Site Inspection conducted on December 9, 2015, the Subject Property structure was completely demolished in preparation for future redevelopment. Despite inquiries from Hydro Tech, Mr. Levy did not report if any storage tanks were identified during demolition activity at the Subject Property.

Occupants and/or Operators

- The Subject Property is currently unoccupied.

Past Owners and/or Occupants

One (1) previous owner, Ms. Yvette Pagan, was identified but not made available to be interviewed during the course of this Assessment.

The interview conducted did not reveal the presence of any other potential Recognized Environmental Conditions in connection with the subject site, and did not provide any additional information with respect to the environmental integrity of the subject property that was not obtained from other sources over the course of this investigation.

In addition, although an interview with the former owner(s) or occupant(s) or operator(s) was not possible as none were provided to Hydro Tech as of the date of this ESA, we do not believe that any such owner(s)

would have additional material information regarding the potential for contamination at the property that was not obtained from other sources over the course of this investigation.

8.0 CONCLUSIONS

Hydro Tech has performed a Phase I Environmental Site Assessment at the Subject Property, and has identified the following Recognized Environmental Condition:

- The presence of a Hazardous Materials E-Designation on the Subject Property (§4.1, §6.0);

9.0 CREDENTIALS & DECLARATION

9.1 Credentials

In accordance with ASTM E 1527, the credentials of those personnel directly involved with the production of this report are provided with this report. **Appendix F** provides a copy of the personnel credentials.

9.2 Environmental Professional Declaration

We declare that to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in 40 C.F.R. Part 312. We have the specific qualifications based on education, training and experience to access a property of the nature, history and setting of the Subject Property. Only where indicated we have developed and performed the AAIs in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

10.0 REFERENCES

American Society for Testing and Materials International. (2010). *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, ASTM E2600 - 10.* Subcommittee E50.02 on Real Estate Assessment and Management, West Conshohocken, PA. doi:10.1520/E2600-10

American Society for Testing and Materials International. (2013). *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E1527 - 13.* Subcommittee E50.02 on Real Estate Assessment and Management, West Conshohocken, PA. doi:10.1520/E1527

Cadmus, D., Hodgen, R., Gatto, L. M., & Puffer, J. H. (n.d.). *Geochemical traverse across Cameron's Line, Borough Hall Park, Bronx, New York.* Newark, New Jersey: Geology Department, Rutgers University.

Environmental Data Resources Inc. (2015). *The EDR Radius Map™ Report with Geocheck®: 383 Manhattan Ave, Brooklyn, NY.* Shelton, CT: EDR. Retrieved December 5, 2015

Environmental Data Resources Inc. (2015). *The EDR-City Directory Abstract: 383 Manhattan Ave, Brooklyn, NY.* Shelton, CT: EDR. Retrieved December 5, 2015

Environmental Data Resources Inc. (2015). *Certified Sanborn® Map Report: 383 Manhattan Ave, Brooklyn, NY.* Shelton, CT: EDR. Retrieved December 5, 2015

HistoricAerials.com. (2015, December). *HistoricAerials: 383 Manhattan Ave, Brooklyn, NY 11211*. Retrieved from HistoricAerials: http://http://www.historicaerials.com

Long Island Home Inspection. (n.d.). *Radon on Long Island*. Retrieved from Long Island Home Inspection: http://www.longislandhomeinspection.com/content/radon-long-island

New York City Department of Finance. (2015, December). *Automated City Register Information System*. Retrieved from Office of the City Register: http://a836-acris.nyc.gov/CP/

New York State Department of Environmental Conservation. (1972). *The Long Island Ground Water Pollution Study.*

PropertyShark.com. (2015, December). *PropertyShark Property-Report: 383 Manhattan Ave, Brooklyn, NY 11211*. Retrieved from PropertyShark: http://www.propertyshark.com/

United States Fish & Wildlife Service. (2015, December). *Wetlands Mapper*. Retrieved from National Wetlands Inventory: http://www.fws.gov/wetlands/Data/Mapper.html

United States Geological Survey. (2010). *Groundwater Conditions on Long Island, New York, 2010*. Retrieved from http://ny.water.usgs.gov/maps/li-gc10/

United States Geological Survey. (2010). *Long Island Depth to Water Viewer*. Retrieved from http://ny.water.usgs.gov/maps/li-dtw10/

Walton, W. C. (1991). *Principals of Groundwater Engineering*. Chelsea, Michigan: Lewis Publishers, Inc.

11.0 EXCLUSIONS & DISCLAIMERS

The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client. No warranty, expressed or implied, is made whatsoever in connection with this report.

In preparing this report, Hydro Tech Environmental, Corp. may have relied on certain information provided by state and local officials and other parties referenced therein, and on information contained in the files of state and/or local agencies available to Hydro Tech Environmental, Corp. at the time of the subject property assessment. Although there may have been some degree of overlap in the information provided by these various sources, Hydro Tech Environmental, Corp. did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this subject property assessment.

No environmental site assessment can wholly eliminate uncertainty regarding the potential for RECs in connection with a Subject Property (ASTM E 1527-13 Section 4.5.1). The intent of an environmental site assessment is to reduce but not eliminate uncertainty regarding the presence of potential RECs within reasonable limits of both time and cost.

Observations were made of the subject property and of structures on the subject property as indicated within the report. Where access to portions of the subject property or to structures on the subject property was unavailable or limited, Hydro Tech Environmental, Corp. renders no opinion as to the presence of non-hazardous or hazardous materials, or to the presence of indirect evidence relating to a non-hazardous or hazardous materials, in that portion of the subject property or structure. In addition, Hydro Tech Environmental, Corp. renders no opinion as to the presence of hazardous materials, or the presence of indirect evidence relating to hazardous materials, where direct observation of the interior walls, floors, or ceiling of a structure on a subject property was obstructed by objects or coverings on or over these surfaces.

Hydro Tech Environmental, Corp. did not perform testing or analyses to determine the presence or concentration of asbestos or lead-based paint at the Subject Property or in the environment of the subject property under the scope of the services performed.

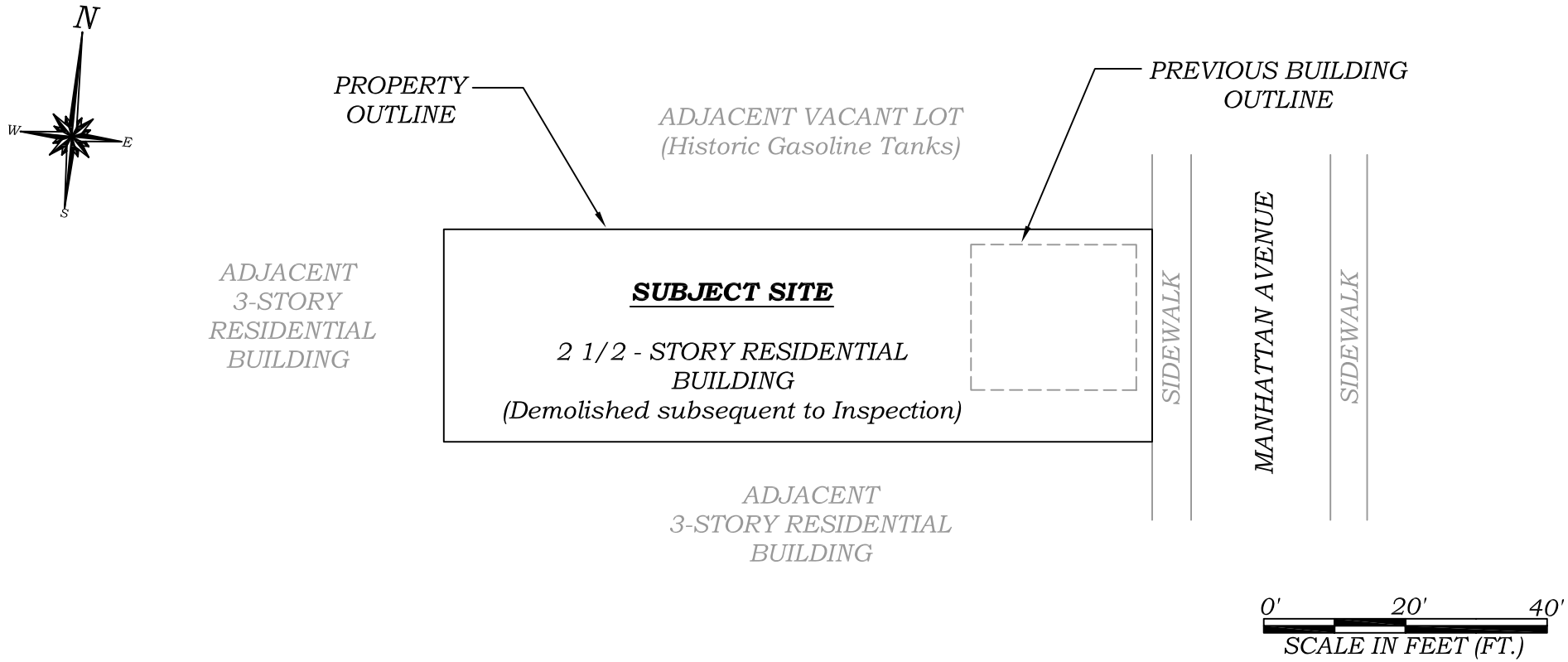
Any water level reading made in test pits, borings, and/or observation wells were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.

Except as noted within the text of the report, no qualitative laboratory testing was performed as part of the subject property assessment. Where an outside laboratory, Hydro Tech Environmental, has conducted such analyses Corp. has relied upon the data provided, and has not conducted an independent evaluation of the reliability of the data.

The conclusions contained in this report are based in part, where noted, upon various types of chemical data and are contingent upon their validity. The data have been reviewed and interpretations were made in the report. As indicated within the report, some of the data may be preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, the data should be reviewed, and the conclusions and recommendations presented herein modified accordingly. If in the opinion of the Client/User or any third party claiming reliance on this report, that Hydro Tech was negligent or in breach of contract, such aforementioned parties shall have 6 months from the date of Hydro Tech's visit to make a claim.

This report was prepared solely for the use of the Client/User and is not intended for use by third parties. Unauthorized third parties shall indemnify and hold Hydro Tech harmless against any liability for any loss arising out of, or related to, reliance by any third party on any work performed hereunder, or the contents of this report.

Figures



HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE, NEW YORK 11788
T (631)462-5866 F (631)462-5877

NYC OFFICE:
15 OCEAN AVENUE, 2nd Floor
BROOKLYN, NEW YORK 11225
T (718)636-0800 F (718)636-0900

www.hydrotechenvironmental.com

383 Manhattan Avenue
Brooklyn, NY.
HTE Job # 150299

Drawn By:	C.Q.
Reviewed By:	C.Q.
Approved By:	M.R
Date:	12/18/15
Scale:	AS NOTED

TITLE:

FIGURE 1: SITE PLAN

B. Site Photographs

CAT

NON-HAZARDOUS
WASTE

C. GPR Report

Hydro Environmental
CONTRACTING, CORP.

Main Office
77 Arkay Drive, Suite G
Hauppauge, New York 11788
T (631) 462-5866 • F (631) 462-5877

NYC Office
15 Ocean Avenue, 2nd Floor
Brooklyn, New York 11225
T (718) 636-0800 • F (718) 636-0900

WWW.HYDROTECHENVIRONMENTAL.COM

January 25th, 2016

Mr. Yanid Levy
Superior Homes
191-15 Jamaica Avenue
Hollis, NY 11423

Re: GPR Survey – 383 Manhattan Avenue, Brooklyn NY
Hydro Tech Job No. 150299

Dear Mr. Levy:

Hydro Tech Environmental, Corp. has performed a Ground Penetrating Radar (GPR) survey at the above referenced Site. The GPR survey was conducted to investigate all available portions of the property for the presence of underground storage tanks.

SITE DETAILS

The Subject Property is identified as 383 Manhattan Avenue, Brooklyn, NY. The Subject Property is approximately 2,500 square feet in area and was developed with a 2.5-story unoccupied residential building. At the time of the GPR Survey (the structure has reportedly been razed since that time). The former building contained a basement and was located in the east portion of the Subject Property, along Manhattan Avenue.

DESCRIPTION OF FIELDWORK

The GPR survey was performed on January 11th, 2016 utilizing a GSSI SIR-3000 Control Unit and a 400-megahertz shielded antenna. Prior to the commencement of the survey, a visual inspection of the property was performed to identify specific areas where USTs could be present.

The GPR takes one "scan" per set unit. The number of scans per unit is based upon the estimated sizes of targets. Based upon the typical size of a UST, the GPR was set to run at 50 scans per foot. As each scan is performed, the antenna emits specific radar amplitude into the subsurface. The amplitude of the radar reflected back to the antenna is based upon the differences in the dielectric constants of the subsurface materials. The difference in amplitude obtained during each scan is then graphically displayed on the Control Unit, which are then interpreted by the GPR operator the time of the survey. Additional interpretations are then conducted in the office utilizing specialized computer software.

GPR RESULTS

No anomalies indicative of an underground structure was identified during this survey.
Attachment #1 provides scans from the GPR Survey Machine.

I hope that this information has proven valuable to this phase of your assessment. Should you have any questions, please feel free to contact our office at your convenience.

Very Truly Yours,
Hydro Tech Environmental, Corp.

Carlos Quinonez
Vice President of Operations

CQ/aj
Encl.

cc: Hydro Tech File 150299 w/Encs.

EXCLUSIONS & DISCLAIMER

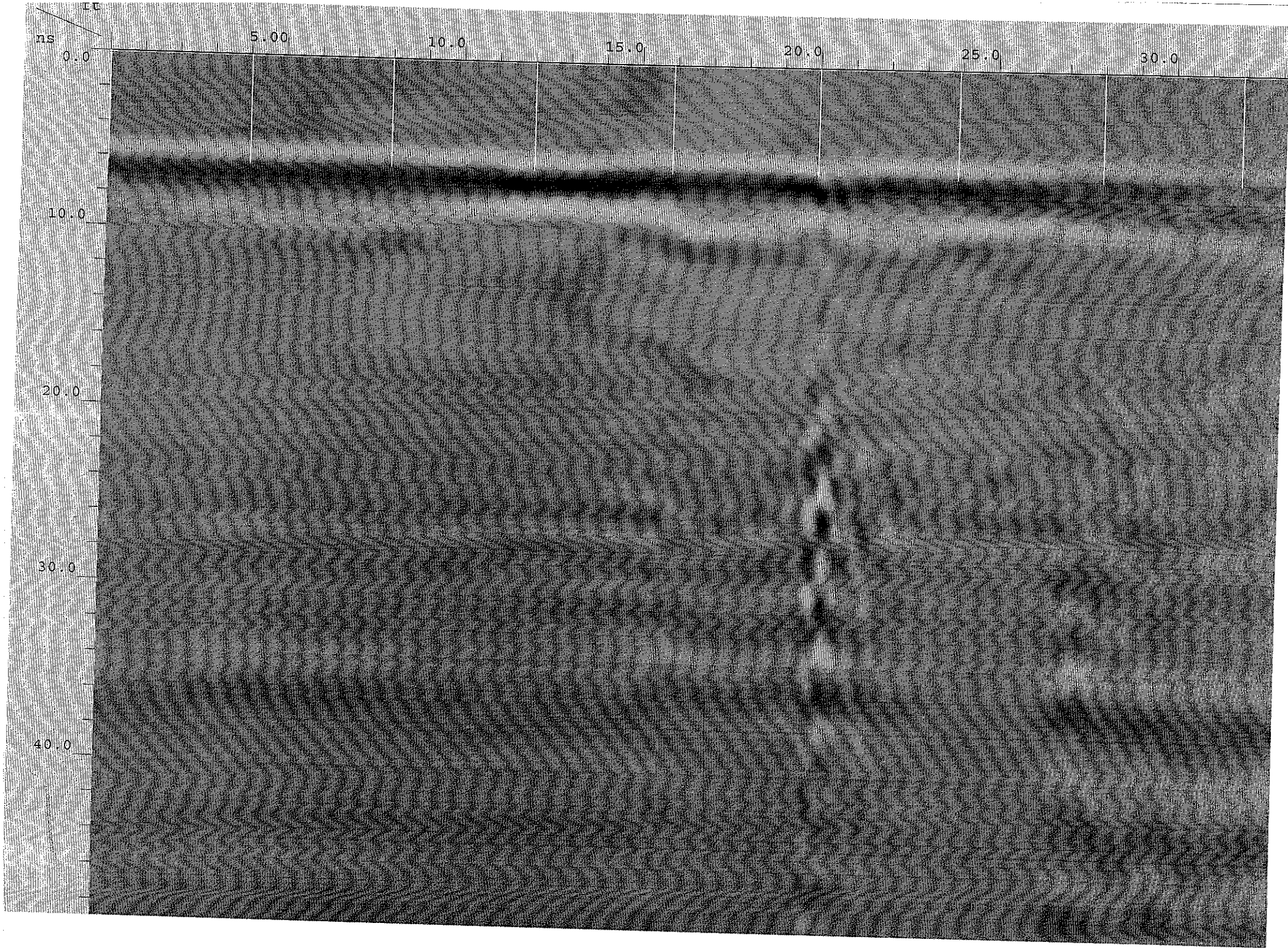
The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by the Client.

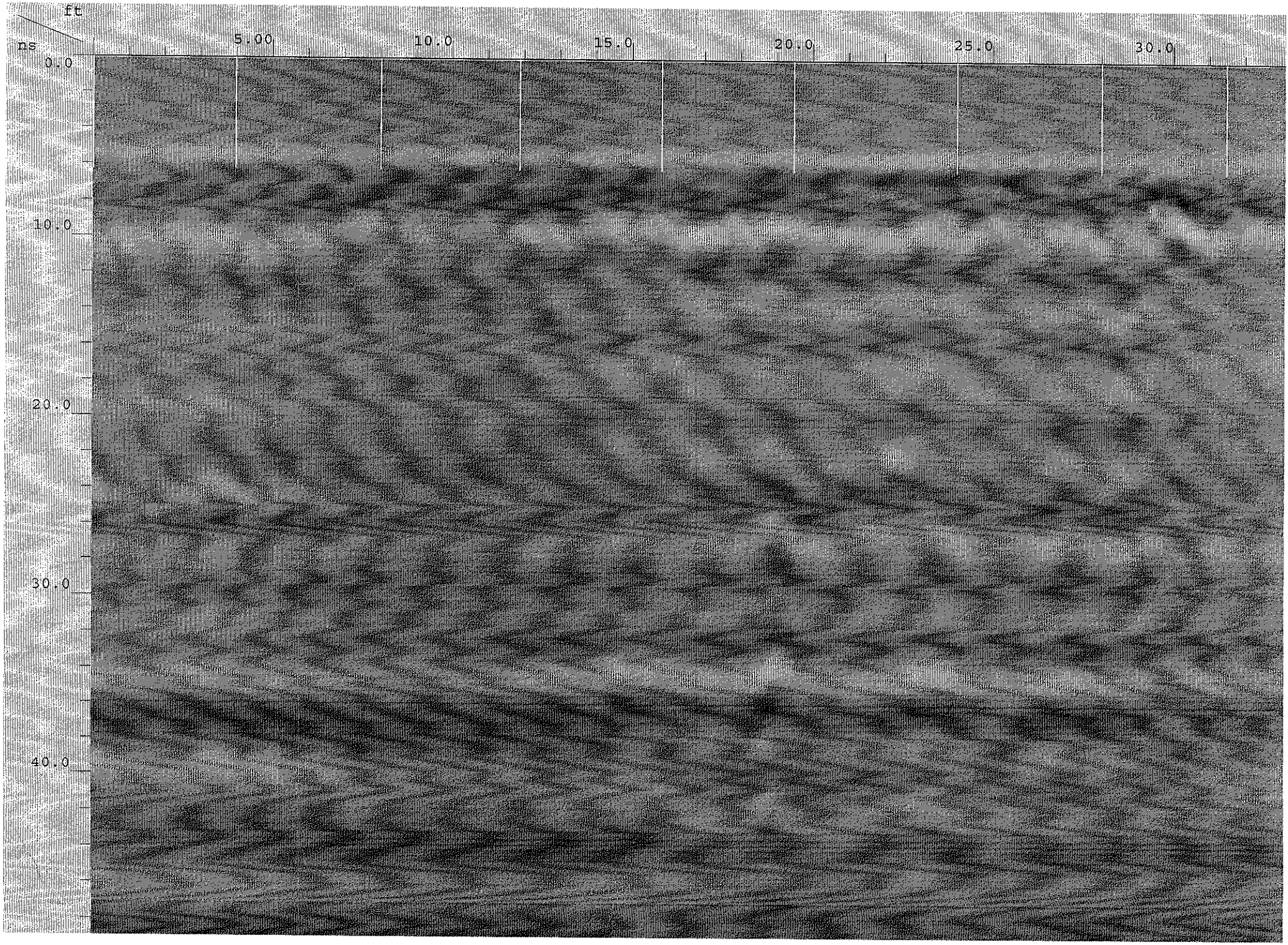
Observations were made of the subject property and/or of structures on the subject property as indicated within the report. Where access to portions of the subject property or to structures on the subject property was unavailable or limited, **Hydro Tech Environmental, Corp**. renders no opinion as to the presence of non-hazardous or hazardous materials, or to the presence of indirect evidence relating to a non hazardous or hazardous materials, in that portion of the subject property or structure. In addition, **Hydro Tech Environmental, Corp.** renders no opinion as to the presence of hazardous materials, or the presence of indirect evidence relating to hazardous materials, where direct observation of the interior walls, floors, or ceiling of a structure on a subject property was obstructed by objects or coverings on or over these surfaces.

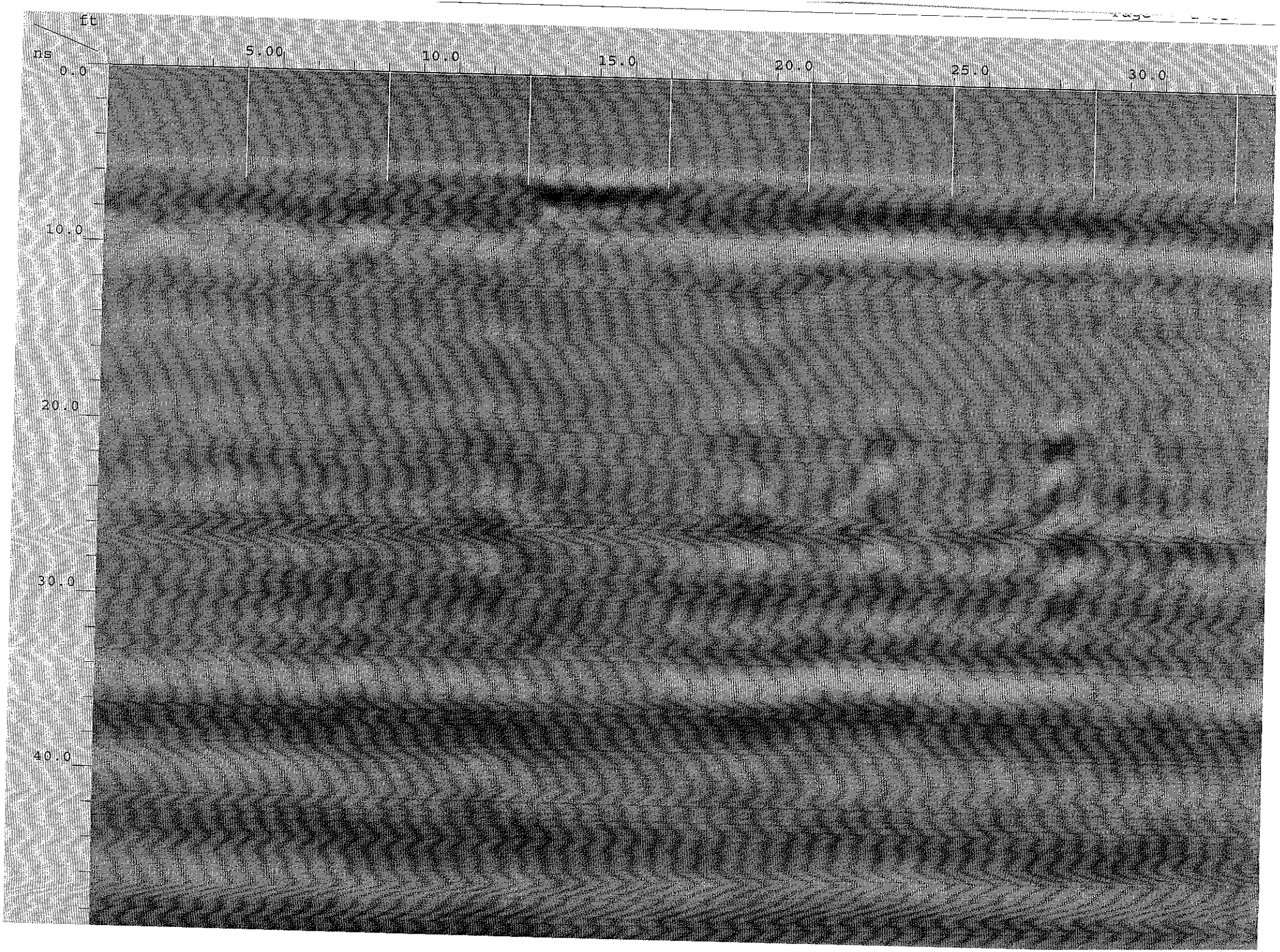
The conclusions and recommendations contained in this report are based in part, where noted, upon various types of chemical data and are contingent upon their validity. The data have been reviewed and interpretations were made in the report. As indicated within the report, some of the data may be preliminary "screening" level data, and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, the data should be reviewed, and the conclusions and recommendations presented herein modified accordingly.

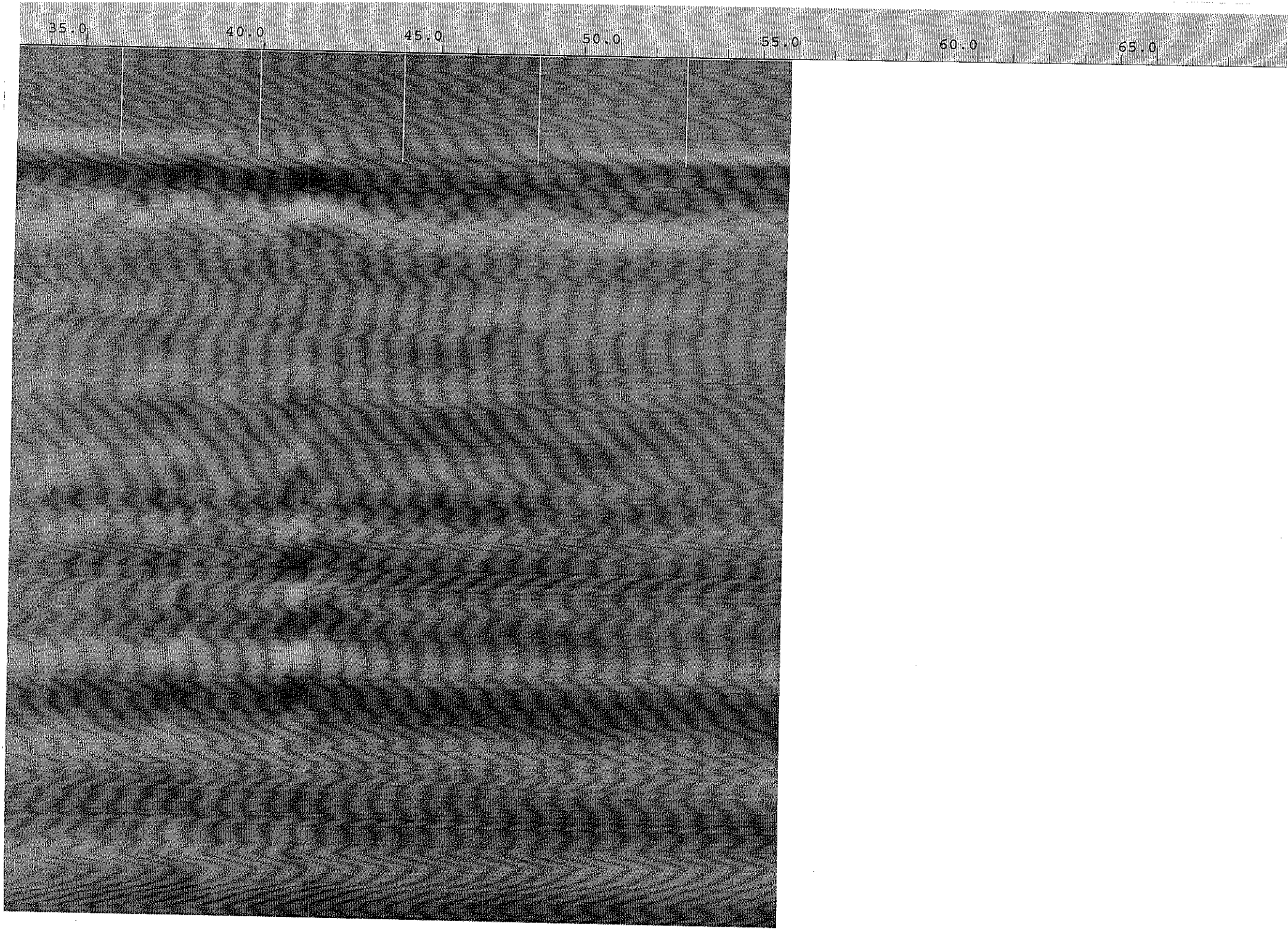
Any GPR survey described above was performed in accordance with good commercial and customary practice and generally accepted protocols within the consulting industry. **Hydro Tech Environmental, Corp.** does not accept responsibility for survey limitations due to inherent technological limitations or site specific conditions, however, made appropriate effort to identify and notify the client of such limitations and conditions. In particular, please note that the survey described above does not represent a full utility clearance survey, and does not relieve any party of applicable legal obligations to notify a utility one-call service prior to excavating or drilling.

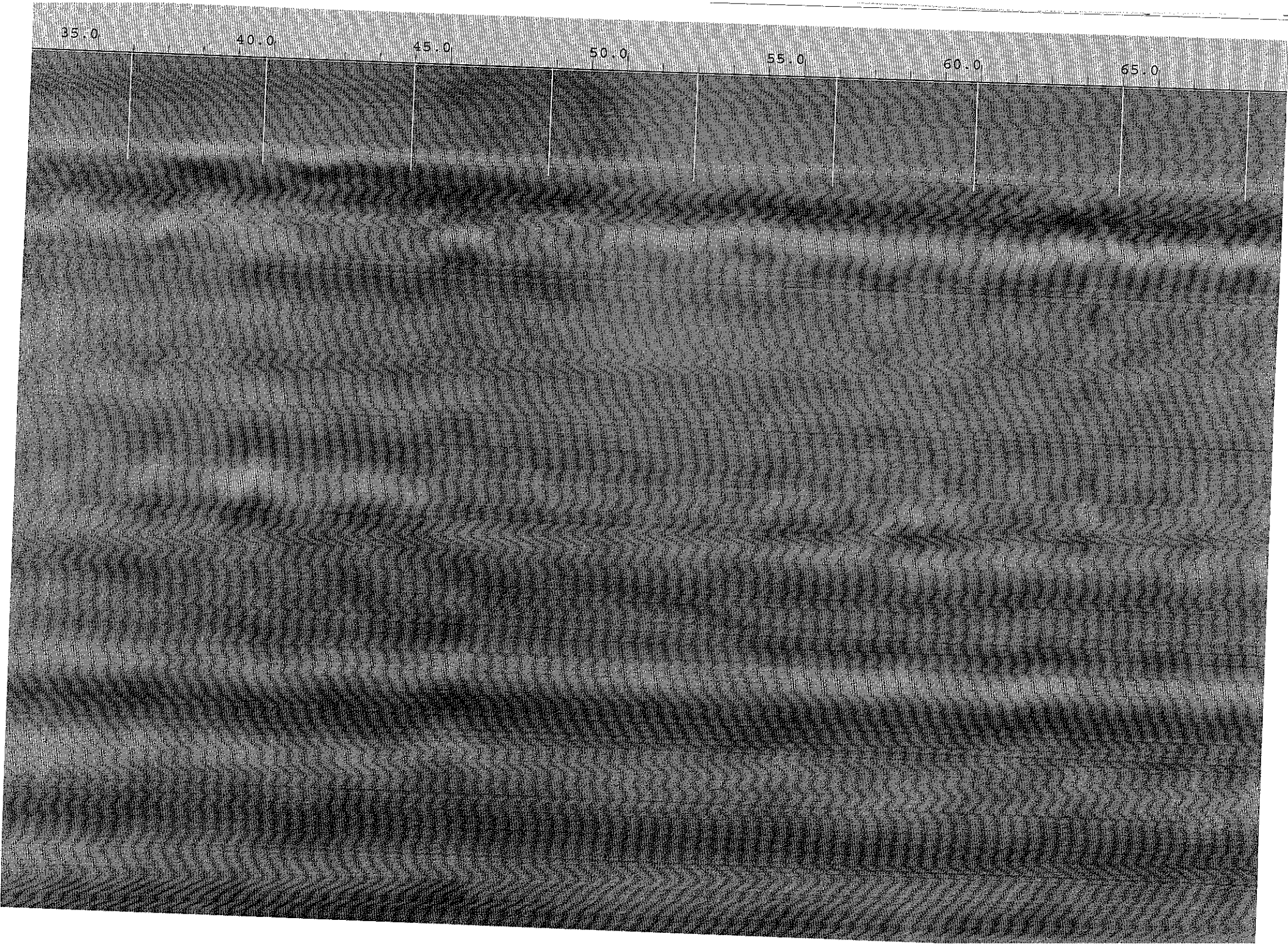
ATTACHMENT #1

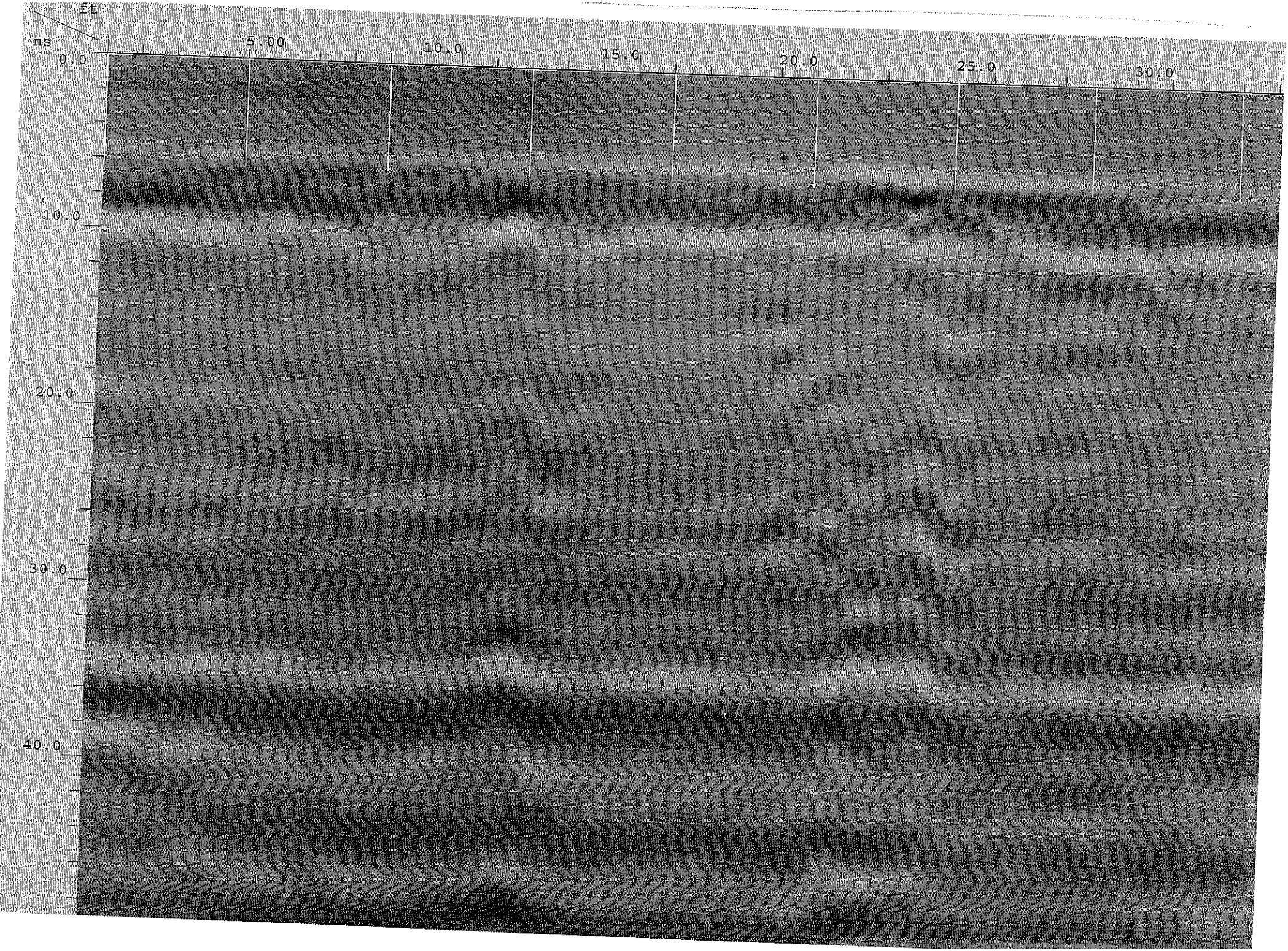

ns
0.0
5.00
10.0
15.0
20.0
25.0
30.0
10.0
20.0
30.0
40.0


ft
ns
5.00
10.0
15.0
20.0
25.0
30.0
0.0
10.0
20.0
30.0
40.0


ft
ns
0.0
5.00
10.0
15.0
20.0
25.0
30.0
10.0
20.0
30.0
40.0


35.0
40.0
45.0
50.0
55.0
60.0
65.0


35.0
40.0
45.0
50.0
55.0
60.0
65.0


ft
ns
0.0
5.00
10.0
15.0
20.0
25.0
30.0
10.0
20.0
30.0
40.0

D. Soil Boring Geologic Logs

Hydro Tech Environmental, Corp.

Main Office
77 Arkay Drive Suite G
Hauppauge, New York, 11788
T (631) 462-5866 · F (631) 462-5877

NYC Office
15 Ocean Avenue 2nd Floor
Brooklyn, New York 11225
T (718) 636-0800 · F (718) 636-0900

www.hydrotechenvironmental.com

Soil Probe Log

Job No:	150299	Date: 01/11/16	Page: 1 of 1
Location:	383 Manhattan Avenue Brooklyn, NY		Sampling Interval: 2 ft Sampling Method: Grab
Boring No.:	SP-1		Depth to Water: n/a
Drilling Method:	Direct Push		Driller: HTE
Total Depth:	4 ft bgs		

USCS SYMBOLS

GW - Well Graded Gravel
SW - Well Graded Sand
ML - Inorganic Silt / Sandy Silt
CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel
SP - Poorly Graded Sand
CL - Inorganic Clays/Sandy Clay
OH - Organic Silt / Clay
GM - Silty Gravel
SM - Silty Sand
OL - Inorganic Silts/Organic Silty Clay
PT - Peat/High Organics
GC - Clayey Gravel
SC - Clayey Sand
MH- Elastic Silts

Depth Below Grade and Lithology	PID Reading (ppm)	USCS	Soil Description
0	0.0	SW	Brown fine organic sand loam
-2	0.0	SM	Brown silty sand
-4			

Hydro Tech Environmental, Corp.

Main Office
77 Arkay Drive Suite G
Hauppauge, New York, 11788
T (631) 462-5866 · F (631) 462-5877

NYC Office
15 Ocean Avenue 2nd Floor
Brooklyn, New York 11225
T (718) 636-0800 · F (718) 636-0900

www.hydrotechenvironmental.com

Soil Probe Log

Job No:	150299	Date: 01/11/16	Page: 1 of 1
Location:	383 Manhattan Avenue Brooklyn, NY		Sampling Interval: 2 ft Sampling Method: Grab
Boring No.:	SP-2		Depth to Water: n/a
Drilling Method:	Direct Push		Driller: HTE
Total Depth:	4 ft bgs		

USCS SYMBOLS

GW - Well Graded Gravel
GP - Poorly Graded Gravel
GM - Silty Gravel
GC - Clayey Gravel
SW - Well Graded Sand
SP - Poorly Graded Sand
SM - Silty Sand
SC - Clayey Sand
ML - Inorganic Silt / Sandy Silt
CL - Inorganic Clays/Sandy Clay
OL - Inorganic Silts/Organic Silty Clay
MH- Elastic Silts
CH - Inorganic Clay, High Plastic
OH - Organic Silt / Clay
PT - Peat/High Organics

Depth Below Grade and Lithology	PID Reading (ppm)	USCS	Soil Description
0	0.0	SW	Brown fine organic sand loam
-2	0.0	SM	Brown silty sand
-4			

Hydro Tech Environmental, Corp.

Main Office
77 Arkay Drive Suite G
Hauppauge, New York, 11788
T (631) 462-5866 · F (631) 462-5877

NYC Office
15 Ocean Avenue 2nd Floor
Brooklyn, New York 11225
T (718) 636-0800 · F (718) 636-0900

www.hydrotechenvironmental.com

Soil Probe Log

Job No:	150299	Date: 01/11/2016	Page: 1 of 1
Location:	383 Manhattan Avenue Brooklyn, NY		Sampling Interval: 2 ft Sampling Method: Grab
Boring No.:	SP-3		Depth to Water: 7 ft bgs
Drilling Method:	Direct Push		Driller: HTE
Total Depth:	8 ft bgs		

USCS SYMBOLS

GW - Well Graded Gravel
SW - Well Graded Sand
ML - Inorganic Silt / Sandy Silt
CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel
SP - Poorly Graded Sand
CL - Inorganic Clays/Sandy Clay
OH - Organic Silt / Clay
GM - Silty Gravel
SM - Silty Sand
OL - Inorganic Silts/Organic Silty Clay
PT - Peat/High Organics
GC - Clayey Gravel
SC - Clayey Sand
MH- Elastic Silts

Depth Below Grade and Lithology	PID Reading (ppm)	USCS	Soil Description
0	0.0	SM	Brown silty sand
-2	0.0	SM	
-4	0.0	SM	Tan fine silty sand
-6	0.0	SW	Brown saturated mediu sand
-8			

Hydro Tech Environmental, Corp.

Main Office
77 Arkay Drive Suite G
Hauppauge, New York, 11788
T (631) 462-5866 · F (631) 462-5877

NYC Office
15 Ocean Avenue 2nd Floor
Brooklyn, New York 11225
T (718) 636-0800 · F (718) 636-0900

www.hydrotechenvironmental.com

Soil Probe Log

Job No:	150299	Date: 01/11/2016	Page: 1 of 1
Location:	383 Manhattan Avenue Brooklyn, NY		Sampling Interval: 2 ft Sampling Method: Grab
Boring No.:	SP-4		Depth to Water: 7 ft bgs
Drilling Method:	Direct Push		Driller: HTE
Total Depth:	8 ft bgs		

USCS SYMBOLS

GW - Well Graded Gravel
SW - Well Graded Sand
ML - Inorganic Silt / Sandy Silt
CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel
SP - Poorly Graded Sand
CL - Inorganic Clays/Sandy Clay
OH - Organic Silt / Clay
GM - Silty Gravel
SM - Silty Sand
OL - Inorganic Silts/Organic Silty Clay
PT - Peat/High Organics
GC - Clayey Gravel
SC - Clayey Sand
MH- Elastic Silts

Depth Below Grade and Lithology	PID Reading (ppm)	USCS	Soil Description
0	0.0	SM	Brown fine to medium silty sand
-2	0.0	SM	
-4	0.0	SM	Brown/tan silty sand
-6	0.0	SW	Brown saturated medium sand
-8			

E. Monitoring Well Construction Logs

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE NEW YORK 11788

NYC OFFICE:
15 OCEAN AVENUE, SECOND FLOOR
BROOKLYN, NEW YORK 11225

PHONE: (631) 462-5866 FAX: (631) 462-5877

WELL CONSTRUCTION LOG

Job No: 150299 Date: 1-11-2016 Page: 1 OF 1

Location: 383 MANHATTAN AVENUE, BROOKLYN, NY

Well Number: MW-1

Drilling Method: DIRECT PUSH

Total Depth: 16.00'

Depth to Water: 4.52'

Manhole Size: 5"

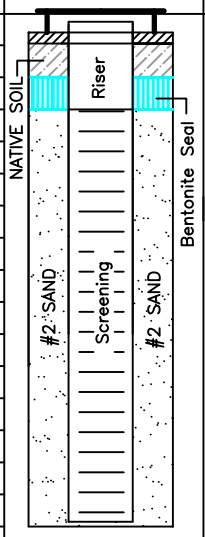
Screen Size: 0.020"

Screen Interval: 13.00'

Diameter: 1"

Riser Length: 3.00'

Sand Size: #2

Depth Below Grade (ft.)	Sample Interval (ft.)	Well Construction	Description
2			5" Manhole Cover
4			0'-2.00' - Native Soil
6			2.00'-3.00' - Bentonite Seal
8			3.00'-16.00' - #2 Sand
10			0' - 3.00' - Riser
12			3.00' - 16.00' - Screen
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			
34			
36			

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE NEW YORK 11788

NYC OFFICE:
15 OCEAN AVENUE, SECOND FLOOR
BROOKLYN, NEW YORK 11225

PHONE: (631) 462-5866 FAX: (631) 462-5877

WELL CONSTRUCTION LOG

Job No: 150299 Date: 1-11-2016 Page: 1 OF 1

Location: 383 MANHATTAN AVENUE, BROOKLYN, NY

Well Number: MW-2

Drilling Method: DIRECT PUSH

Total Depth: 16.00'

Depth to Water: 5.29'

Manhole Size: 5"

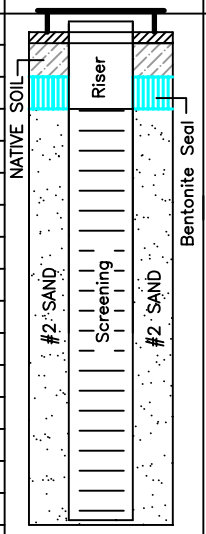
Screen Size: 0.020"

Screen Interval: 13.00'

Diameter: 1"

Riser Length: 3.00'

Sand Size: #2

Depth Below Grade (ft.)	Sample Interval (ft.)	Well Construction	Description
2			5" Manhole Cover
4			0'-2.00' – Native Soil
6			2.00'-3.00' – Bentonite Seal
8			3.00'-16.00' – #2 Sand
10			0' – 3.00' – Riser
12			3.00' – 16.00' – Screen
14			
16			
18			
20			
22			
24			
26			
28			
30			
32			
34			
36			

HYDRO TECH ENVIRONMENTAL CORP.

MAIN OFFICE:
77 ARKAY DRIVE, SUITE G
HAUPPAUGE NEW YORK 11788

NYC OFFICE:
15 OCEAN AVENUE, SECOND FLOOR
BROOKLYN, NEW YORK 11225

PHONE: (631) 462-5866 FAX: (631) 462-5877

WELL CONSTRUCTION LOG

Job No: 150299 Date: 1-11-2016 Page: 1 OF 1

Location: 383 MANHATTAN AVENUE, BROOKLYN, NY

Well Number: MW-3

Drilling Method: DIRECT PUSH

Total Depth: 16.00'

Depth to Water: 4.50'

Manhole Size: 5"

Screen Size: 0.020"

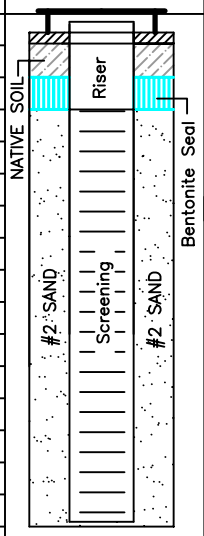
Screen Interval: 13.00'

Diameter: 1"

Riser Length: 3.00'

Sand Size: #2

Depth Below Grade (ft.)	Sample Interval (ft.)	Well Construction	Description
2			
4			5" Manhole Cover
6			0'-2.00' - Native Soil
8			2.00'-3.00' - Bentonite Seal
10			3.00'-16.00' - #2 Sand
12			0' - 3.00' - Riser
14			3.00' - 16.00' - Screen
16			
18			
20			
22			
24			
26			
28			
30			
32			
34			
36			



F. Well Purging and Sampling Logs

Hydro Tech Environmental, Corp.

Monitoring Well Sampling Log Sheet

Job No.: 150299 Well No.: 1 Date: 1/12/16

Well Depth: 16 Screen Length: 10 Well Diameter: 1" Casing Type: _____

Sampling Device: HORIBA Tubing Type: _____ Initial DTP: ND Initial DTW: 4.52

Well Volume: _____ Total Volume Purged: _____

Sampling Personnel: Julio Javier

Low Flow Sampling required ? Yes : _____ No: _____

Order of stabilization

Deviation

Time	DTP (ft)	DTW (ft)	a ±1 pH	b Temp (°F)	c ± 3% Cond. (S/Cm)	e ± 10% Dis.O2 (mg/L)	f ± 10% Turb.(NTU)	d ± 10 mv ORP (mV)	Notes
12:30	ND	4.52	8.32	10.97	1.36	3.50	154	-67	
12:35	ND	4.55	8.26	11.15	1.35	2.93	144	-58	
12:40	ND	4.54	8.25	11.22	1.35	2.70	135	-52	
12:45	ND	4.54	8.25	11.27	1.35	2.52	135	-47	
12:50	ND	4.53	8.25	11.33	1.35	2.40	134	-87	
12:55	ND	4.53	8.25	11.36	1.35	2.31	135	-37	

Hydro Tech Environmental, Corp.

Monitoring Well Sampling Log Sheet

Job No.: 150299 Well No.: 2 Date: 1/12/16

Well Depth: 16 Screen Length: 10" Well Diameter: 1" Casing Type: _____

Sampling Device: HORIBA Tubing Type: _____ Initial DTP: ND Initial DTW: 5.29

Well Volume: _____ Total Volume Purged: _____

Sampling Personnel: Julio Javier

Low Flow Sampling required ? Yes : _____ No: _____

Order of stabilization

Deviation

Time	DTP (ft)	DTW (ft)	a ±1 pH	b Temp (°F)	c ± 3% Cond. (S/Cm)	e ± 10% Dis.O2 (mg/L)	f ± 10% Turb.(NTU)	d ± 10 mv ORP (mV)	Notes
11:20	ND	5.29	8.22	10.94	1.31	5.48	469	-146	
11:25	ND	5.32	8.16	11.01	1.31	4.35	287	-157	
11:30	ND	5.30	8.15	10.95	1.32	3.89	213	-161	
11:35	ND	5.30	8.15	10.93	1.32	3.74	178	-162	
11:40	ND	5.31	8.15	10.92	1.32	3.02	116	-169	
11:45	ND	5.33	8.15	10.93	1.33	2.87	117	-170	
11:50	ND	5.31	8.15	10.95	1.32	2.80	116	-170	

Hydro Tech Environmental, Corp.

Monitoring Well Sampling Log Sheet

Job No.: 150299 Well No.: 3 Date: 1/12/16

Well Depth: 16 Screen Length: 10 Well Diameter: 1" Casing Type: _____

Sampling Device: HORIBA Tubing Type: _____ Initial DTP: ND Initial DTW: 4.50

Well Volume: _____ Total Volume Purged: _____

Sampling Personnel: Javier y Julio

Low Flow Sampling required ? Yes : _____ No: _____

Order of stabilization

Deviation

Time	DTP (ft)	DTW (ft)	pH (a ±1)	Temp (°F) (b)	Cond. (S/Cm) (c ± 3%)	Dis.O2 (mg/L) (e ± 10%)	Turb.(NTU) (f ± 10%)	ORP (mV) (d ± 10 mv)	Notes
10:10	ND	4.50	8.47	11.01	2.65	6.13	344	31	clean
10:15	ND	4.15	8.33	10.35	2.65	4.69	342	33	
10:20	ND	4.18	8.34	9.93	2.65	4.18	0.0	48	
10:25	ND	4.15	8.33	9.96	2.65	3.98	0.0	53	
10:30	ND	4.17	8.33	10.00	2.66	3.81	0.0	64	

HYDRO TECH ENVIRONMENTAL, CORP.

77 Arkay Drive, Suite G
Hauppauge, New York 11788

15 Ocean Avenue, 2nd Floor
Brooklyn, New York 11225

MONITORING WELL MONITORING LOG

Project Name #150299

Date 01/12/2016

Client

Instrument Interface Probe

Site Location 383 Manhattan Ave Brooklyn NY

Spill No.

Monitoring Schedule

Sampling Schedule

Legend

T = Trace F = Film S = Snow D = Dry G = Gone P = Pump C = Can't Locate
DTW = Depth to Water DTP = Depth to Product PT = Product Thickness ND = None Detected NA = No Access

Monitoring Well	D.T.P. (Before)	D.T.W. (Before)	P.T. (Before)	D.T.P. (After)	D.T.W. (After)	P.T. (After)
MW-1	N/7	4.52				
MW-2	N/7	5.29				
MW-3	N/7	4.50				

Note All measurements in feet, TOC

Reported By

Reviewed By:

G. Soil Vapor Sampling Logs

AMBIENT AIR/SOIL VAPOR SAMPLING LOG SHEET

Weather Conditions during past 24-48 hrs: Dry & Frigid

Building Ventilation Conditions: N/A

Source(s) of VOCs in Area: Vehicle exhaust from adjacent road

Sample Coordinates						Sampler Name	Indoor PID Reading (ppm)	Indoor air temp (°F)	Summa Canister ID	Canister Volume (L)	Purge Volume(s) (L)	Helium Detector (µg/L)		Time start (24 hr)	Time Stop (24 hr)	Canister Vacuum ("Hg)		Total Volume Extracte (L)	Weather (Wind, Dry, Moist, Saturated, temp) of Sampling Zone
Sample ID	Sampling Date	Air Matrix	Sub-Surface Installation									Start	Stop			Before	After		
			Date	Time	Depth														
SV-1	1/11/16	SV	1/11/16	08:30	4'	AJ Infante	NA	NA	479	6	6	0	0	11:07	13:07	-30	-9	6	Dry, Cold
SV-2	1/11/16	SV	1/11/16	08:20	4'	AJ Infante	NA	NA	13642	6	6	0	0	11:02	13:02	-30	-9	6	Dry, Cold
SV-3	1/11/16	SV	1/11/16	07:40	4'	AJ Infante	NA	NA	482	6	6	0	0	11:00	13:00	-30	-6	6	Dry, Cold

Air Matrix Codes:
AI - Indoor Air
AO- Outdoor Air
SV - Soil Vapor
SB - Sub-slab

Notes :

H. Soil Analytical Report

PHOENIX
Environmental Laboratories, Inc.

Wednesday, January 20, 2016

Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Project ID: 150299
Sample ID#s: BK51404 - BK51411, BK51518 - BK51519

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

January 20, 2016

SDG I.D.: GBK51404

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	9:50
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51404

Project ID: 150299
Client ID: SP-1 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	4810	58	mg/Kg	10	01/13/16	LK	SW6010C
Antimony	24.9	4.2	mg/Kg	1	01/19/16	LK	SW6010C
Arsenic	24.3	0.8	mg/Kg	1	01/13/16	LK	SW6010C
Barium	2270	3.9	mg/Kg	10	01/13/16	LK	SW6010C
Beryllium	0.58	0.31	mg/Kg	1	01/13/16	LK	SW6010C
Calcium	17000	58	mg/Kg	10	01/13/16	LK	SW6010C
Cadmium	6.01	0.39	mg/Kg	1	01/13/16	LK	SW6010C
Chromium	43.2	0.39	mg/Kg	1	01/13/16	LK	SW6010C
Cobalt	10.5	0.39	mg/Kg	1	01/13/16	LK	SW6010C
Copper	438	3.9	mg/kg	10	01/13/16	LK	SW6010C
Iron	32900	58	mg/Kg	10	01/13/16	LK	SW6010C
Lead	3620	39	mg/Kg	100	01/13/16	EK	SW6010C
Magnesium	1890	5.8	mg/Kg	1	01/13/16	LK	SW6010C
Manganese	838	3.9	mg/Kg	10	01/13/16	LK	SW6010C
Mercury	4.73	0.32	mg/Kg	1	01/18/16	RS	SW7471B
Nickel	29.0	0.39	mg/Kg	1	01/13/16	LK	SW6010C
Potassium	648	5.8	mg/Kg	1	01/13/16	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	01/13/16	LK	SW6010C
Silver	2.22	0.39	mg/Kg	1	01/13/16	LK	SW6010C
Sodium	215	5.8	mg/Kg	1	01/13/16	LK	SW6010C
Thallium	< 3.5	3.5	mg/Kg	1	01/13/16	LK	SW6010C
Vanadium	36.6	0.39	mg/Kg	1	01/13/16	LK	SW6010C
Zinc	3890	39	mg/Kg	100	01/13/16	EK	SW6010C
Percent Solid	79		%		01/12/16	W	SW846-%Solid
Soil Extraction for PCB	Completed				01/12/16	NB	SW3545A
Soil Extraction for Pest	Completed				01/12/16	NB	SW3545A
Soil Extraction for SVOA	Completed				01/12/16	NB/CKV	SW3545A
Mercury Digestion	Completed				01/17/16	W/W	SW7471B

Project ID: 150299
Client ID: SP-1 (0-2 FT)

Phoenix I.D.: BK51404

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				01/18/16	G/AG	SW3050B
Field Extraction	Completed				01/11/16		SW5035A
Polychlorinated Biphenyls							
PCB-1016	ND	0.084	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1221	ND	0.084	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1232	ND	0.084	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1242	ND	0.084	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1248	ND	0.084	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1254	ND	0.084	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1260	ND	0.084	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1262	ND	0.084	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1268	ND	0.084	mg/Kg	2	01/14/16	AW	SW8082A
QA/QC Surrogates							
% DCBP	Interference		%	2	01/14/16	AW	30 - 150 %
% TCMX	85		%	2	01/14/16	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	0.022	0.0025	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDE	0.033	0.0025	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDT	0.2	0.025	mg/Kg	20	01/14/16	CE	SW8081B
a-BHC	0.02	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
a-Chlordane	0.017	0.0042	mg/Kg	2	01/13/16	CE	SW8081B
Aldrin	ND	0.0042	mg/Kg	2	01/13/16	CE	SW8081B
b-BHC	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
Chlordane	0.13	0.042	mg/Kg	2	01/13/16	CE	SW8081B
d-BHC	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
Dieldrin	0.047	0.0042	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan I	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan II	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan sulfate	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
Endrin	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
Endrin aldehyde	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
Endrin ketone	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
g-BHC	ND	0.0017	mg/Kg	2	01/13/16	CE	SW8081B
g-Chlordane	0.016	0.0042	mg/Kg	2	01/13/16	CE	SW8081B
Heptachlor	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
Heptachlor epoxide	ND	0.0084	mg/Kg	2	01/13/16	CE	SW8081B
Methoxychlor	ND	0.042	mg/Kg	2	01/13/16	CE	SW8081B
Toxaphene	ND	0.17	mg/Kg	2	01/13/16	CE	SW8081B
QA/QC Surrogates							
% DCBP	130		%	2	01/13/16	CE	30 - 150 %
% TCMX	72		%	2	01/13/16	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C
1,1-Dichloroethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C

Project ID: 150299
Client ID: SP-1 (0-2 FT)

Phoenix I.D.: BK51404

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
1,1-Dichloropropene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,3-Trichloropropane	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dibromoethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichlorobenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dichloroethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloropropane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
1,3-Dichlorobenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
1,3-Dichloropropane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
1,4-Dichlorobenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
2,2-Dichloropropane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Chlorotoluene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
2-Hexanone	ND	0.041	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Isopropyltoluene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	1
4-Chlorotoluene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
4-Methyl-2-pentanone	ND	0.041	mg/Kg	1	01/12/16	JLI	SW8260C	
Acetone	ND	0.041	mg/Kg	1	01/12/16	JLI	SW8260C	
Acrylonitrile	ND	0.017	mg/Kg	1	01/12/16	JLI	SW8260C	
Benzene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromobenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
Bromochloromethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromodichloromethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromoform	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromomethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon Disulfide	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Chlorobenzene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroform	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloromethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromochloromethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromomethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Ethylbenzene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
Isopropylbenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
m&p-Xylene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	0.041	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.017	mg/Kg	1	01/12/16	JLI	SW8260C	
Methylene chloride	ND	0.017	mg/Kg	1	01/12/16	JLI	SW8260C	
Naphthalene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
n-Butylbenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	

Project ID: 150299
Client ID: SP-1 (0-2 FT)

Phoenix I.D.: BK51404

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Propylbenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
o-Xylene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
Styrene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.92	mg/Kg	50	01/13/16	JLI	SW8260C	
Tetrachloroethene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.017	mg/Kg	1	01/12/16	JLI	SW8260C	1
Toluene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Total Xylenes	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	1.8	mg/Kg	50	01/13/16	JLI	SW8260C	
Trichloroethene	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
Vinyl chloride	ND	0.0083	mg/Kg	1	01/12/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100		%	50	01/13/16	JLI	70 - 130 %	
% Bromofluorobenzene	98		%	50	01/13/16	JLI	70 - 130 %	
% Dibromofluoromethane	101		%	1	01/12/16	JLI	70 - 130 %	
% Toluene-d8	95		%	1	01/12/16	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
1,2,4-Trichlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Dichlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Diphenylhydrazine	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
1,3-Dichlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
1,4-Dichlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dichlorophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dimethylphenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrophenol	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrotoluene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,6-Dinitrotoluene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Chloronaphthalene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Chlorophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylnaphthalene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitroaniline	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitrophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
3-Nitroaniline	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloroaniline	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D

Project ID: 150299
Client ID: SP-1 (0-2 FT)

Phoenix I.D.: BK51404

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorophenyl phenyl ether	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitroaniline	ND	0.66	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitrophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthene	0.34	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthylene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Acetophenone	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Aniline	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Anthracene	0.94	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benz(a)anthracene	3.2	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzidine	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(a)pyrene	2.7	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(b)fluoranthene	2.5	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(ghi)perylene	1.4	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(k)fluoranthene	2.6	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzoic acid	ND	0.82	mg/Kg	1	01/13/16	DD	SW8270D	1
Benzyl butyl phthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	1.3	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Carbazole	0.51	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Chrysene	3.5	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenz(a,h)anthracene	0.41	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenzofuran	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Diethyl phthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Dimethylphthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-butylphthalate	0.46	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-octylphthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Fluoranthene	6.6	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Fluorene	0.38	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobutadiene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorocyclopentadiene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachloroethane	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	1.6	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Isophorone	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Naphthalene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Nitrobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodimethylamine	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodiphenylamine	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachloronitrobenzene	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachlorophenol	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Phenanthrene	5.1	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Phenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Pyrene	5.7	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Pyridine	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	60		%	1	01/13/16	DD	30 - 130 %	

Project ID: 150299
Client ID: SP-1 (0-2 FT)

Phoenix I.D.: BK51404

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	57		%	1	01/13/16	DD	30 - 130 %
% 2-Fluorophenol	39		%	1	01/13/16	DD	30 - 130 %
% Nitrobenzene-d5	58		%	1	01/13/16	DD	30 - 130 %
% Phenol-d5	50		%	1	01/13/16	DD	30 - 130 %
% Terphenyl-d14	49		%	1	01/13/16	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

Pesticide Comment:
Due to the presence of large quantities of target pesticides in the sample an elevated RL was reported.

PCB Comment:
Due to matrix interference from non target compounds in the sample, surrogate could not be reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	9:55
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51405

Project ID: 150299
Client ID: SP-1 (2-4 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	6150	68	mg/Kg	10	01/13/16	LK	SW6010C
Antimony	10.5	4.4	mg/Kg	1	01/19/16	LK	SW6010C
Arsenic	23.0	0.9	mg/Kg	1	01/13/16	LK	SW6010C
Barium	2480	4.5	mg/Kg	10	01/13/16	LK	SW6010C
Beryllium	0.79	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Calcium	23800	68	mg/Kg	10	01/13/16	LK	SW6010C
Cadmium	6.36	0.45	mg/Kg	1	01/13/16	LK	SW6010C
Chromium	44.7	0.45	mg/Kg	1	01/13/16	LK	SW6010C
Cobalt	12.5	0.45	mg/Kg	1	01/13/16	LK	SW6010C
Copper	513	4.5	mg/kg	10	01/13/16	LK	SW6010C
Iron	33400	68	mg/Kg	10	01/13/16	LK	SW6010C
Lead	4160	45	mg/Kg	100	01/13/16	EK	SW6010C
Magnesium	2320	6.8	mg/Kg	1	01/13/16	LK	SW6010C
Manganese	499	4.5	mg/Kg	10	01/13/16	LK	SW6010C
Mercury	3.64	0.33	mg/Kg	1	01/18/16	RS	SW7471B
Nickel	36.5	0.45	mg/Kg	1	01/13/16	LK	SW6010C
Potassium	744	6.8	mg/Kg	1	01/13/16	LK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	01/13/16	LK	SW6010C
Silver	1.73	0.45	mg/Kg	1	01/13/16	LK	SW6010C
Sodium	273	6.8	mg/Kg	1	01/13/16	LK	SW6010C
Thallium	< 4.1	4.1	mg/Kg	1	01/13/16	LK	SW6010C
Vanadium	36.5	0.45	mg/Kg	1	01/13/16	LK	SW6010C
Zinc	2550	45	mg/Kg	100	01/13/16	EK	SW6010C
Percent Solid	76		%		01/12/16	W	SW846-%Solid
Soil Extraction for PCB	Completed				01/12/16	NB	SW3545A
Soil Extraction for Pest	Completed				01/12/16	NB	SW3545A
Soil Extraction for SVOA	Completed				01/12/16	NB/CKV	SW3545A
Mercury Digestion	Completed				01/17/16	W/W	SW7471B

Project ID: 150299
Client ID: SP-1 (2-4 FT)

Phoenix I.D.: BK51405

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				01/18/16	G/AG	SW3050B
Field Extraction	Completed				01/11/16		SW5035A
Polychlorinated Biphenyls							
PCB-1016	ND	0.087	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1221	ND	0.087	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1232	ND	0.087	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1242	ND	0.087	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1248	ND	0.087	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1254	ND	0.087	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1260	ND	0.087	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1262	ND	0.087	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1268	ND	0.087	mg/Kg	2	01/14/16	AW	SW8082A
QA/QC Surrogates							
% DCBP	139		%	2	01/14/16	AW	30 - 150 %
% TCMX	76		%	2	01/14/16	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	0.018	0.0026	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDE	0.038	0.0026	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDT	0.23	0.026	mg/Kg	20	01/14/16	CE	SW8081B
a-BHC	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
a-Chlordane	0.015	0.0043	mg/Kg	2	01/13/16	CE	SW8081B
Aldrin	ND	0.0043	mg/Kg	2	01/13/16	CE	SW8081B
b-BHC	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
Chlordane	0.13	0.043	mg/Kg	2	01/13/16	CE	SW8081B
d-BHC	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
Dieldrin	0.027	0.0043	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan I	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan II	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan sulfate	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
Endrin	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
Endrin aldehyde	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
Endrin ketone	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
g-BHC	ND	0.0017	mg/Kg	2	01/13/16	CE	SW8081B
g-Chlordane	0.014	0.0043	mg/Kg	2	01/13/16	CE	SW8081B
Heptachlor	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
Heptachlor epoxide	ND	0.0087	mg/Kg	2	01/13/16	CE	SW8081B
Methoxychlor	ND	0.043	mg/Kg	2	01/13/16	CE	SW8081B
Toxaphene	ND	0.17	mg/Kg	2	01/13/16	CE	SW8081B
QA/QC Surrogates							
% DCBP	126		%	2	01/13/16	CE	30 - 150 %
% TCMX	72		%	2	01/13/16	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C
1,1-Dichloroethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C

Project ID: 150299
Client ID: SP-1 (2-4 FT)

Phoenix I.D.: BK51405

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
1,1-Dichloropropene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,3-Trichloropropane	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dibromoethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
1,2-Dichlorobenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dichloroethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
1,2-Dichloropropane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
1,3-Dichlorobenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
1,3-Dichloropropane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
1,4-Dichlorobenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
2,2-Dichloropropane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
2-Chlorotoluene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
2-Hexanone	ND	0.048	mg/Kg	1	01/13/16	JLI	SW8260C	
2-Isopropyltoluene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	1
4-Chlorotoluene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
4-Methyl-2-pentanone	ND	0.048	mg/Kg	1	01/13/16	JLI	SW8260C	
Acetone	ND	0.048	mg/Kg	1	01/13/16	JLI	SW8260C	
Acrylonitrile	ND	0.019	mg/Kg	1	01/13/16	JLI	SW8260C	
Benzene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Bromobenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
Bromochloromethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Bromodichloromethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Bromoform	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Bromomethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Carbon Disulfide	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Chlorobenzene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Chloroethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Chloroform	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Chloromethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Dibromochloromethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Dibromomethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Ethylbenzene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
Isopropylbenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
m&p-Xylene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	0.048	mg/Kg	1	01/13/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.019	mg/Kg	1	01/13/16	JLI	SW8260C	
Methylene chloride	ND	0.019	mg/Kg	1	01/13/16	JLI	SW8260C	
Naphthalene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
n-Butylbenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	

Project ID: 150299
Client ID: SP-1 (2-4 FT)

Phoenix I.D.: BK51405

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Propylbenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
o-Xylene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
Styrene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.8	mg/Kg	50	01/13/16	JLI	SW8260C	
Tetrachloroethene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.019	mg/Kg	1	01/13/16	JLI	SW8260C	1
Toluene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Total Xylenes	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	1.6	mg/Kg	50	01/13/16	JLI	SW8260C	
Trichloroethene	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
Vinyl chloride	ND	0.0097	mg/Kg	1	01/13/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	100		%	50	01/13/16	JLI	70 - 130 %	
% Bromofluorobenzene	97		%	50	01/13/16	JLI	70 - 130 %	
% Dibromofluoromethane	104		%	1	01/13/16	JLI	70 - 130 %	
% Toluene-d8	94		%	1	01/13/16	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
1,2,4-Trichlorobenzene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Dichlorobenzene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Diphenylhydrazine	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D
1,3-Dichlorobenzene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
1,4-Dichlorobenzene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dichlorophenol	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dimethylphenol	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrophenol	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrotoluene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2,6-Dinitrotoluene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2-Chloronaphthalene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2-Chlorophenol	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylnaphthalene	0.38	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitroaniline	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitrophenol	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
3-Nitroaniline	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloroaniline	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D

Project ID: 150299
Client ID: SP-1 (2-4 FT)

Phoenix I.D.: BK51405

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorophenyl phenyl ether	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitroaniline	ND	0.7	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitrophenol	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthene	0.68	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthylene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Acetophenone	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Aniline	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D	
Anthracene	1.4	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Benz(a)anthracene	3.9	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Benzidine	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(a)pyrene	3.3	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(b)fluoranthene	3.3	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(ghi)perylene	1.7	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(k)fluoranthene	3.5	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Benzoic acid	ND	0.88	mg/Kg	1	01/13/16	DD	SW8270D	1
Benzyl butyl phthalate	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	3.9	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Carbazole	0.75	0.44	mg/Kg	1	01/13/16	DD	SW8270D	
Chrysene	4.5	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenz(a,h)anthracene	0.36	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenzofuran	0.56	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Diethyl phthalate	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Dimethylphthalate	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-butylphthalate	0.89	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-octylphthalate	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Fluoranthene	8.7	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Fluorene	0.78	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobenzene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobutadiene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorocyclopentadiene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachloroethane	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	1.7	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Isophorone	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Naphthalene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Nitrobenzene	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodimethylamine	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodiphenylamine	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachloronitrobenzene	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachlorophenol	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D	
Phenanthrene	8.5	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Phenol	ND	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Pyrene	7.7	0.31	mg/Kg	1	01/13/16	DD	SW8270D	
Pyridine	ND	0.44	mg/Kg	1	01/13/16	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	69		%	1	01/13/16	DD	30 - 130 %	

Project ID: 150299
Client ID: SP-1 (2-4 FT)

Phoenix I.D.: BK51405

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	59		%	1	01/13/16	DD	30 - 130 %
% 2-Fluorophenol	36		%	1	01/13/16	DD	30 - 130 %
% Nitrobenzene-d5	62		%	1	01/13/16	DD	30 - 130 %
% Phenol-d5	46		%	1	01/13/16	DD	30 - 130 %
% Terphenyl-d14	51		%	1	01/13/16	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	10:15
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51406

Project ID: 150299
Client ID: SP-2 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	4450	49	mg/Kg	10	01/13/16	LK	SW6010C
Antimony	< 3.2	3.2	mg/Kg	1	01/13/16	LK	SW6010C
Arsenic	4.8	0.6	mg/Kg	1	01/13/16	LK	SW6010C
Barium	50.3	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Beryllium	< 0.26	0.26	mg/Kg	1	01/13/16	LK	SW6010C
Calcium	4480	4.9	mg/Kg	1	01/13/16	LK	SW6010C
Cadmium	< 0.32	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Chromium	14.3	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Cobalt	4.37	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Copper	28.5	0.32	mg/kg	1	01/13/16	LK	SW6010C
Iron	10600	49	mg/Kg	10	01/13/16	LK	SW6010C
Lead	118	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Magnesium	2180	4.9	mg/Kg	1	01/13/16	LK	SW6010C
Manganese	221	3.2	mg/Kg	10	01/13/16	LK	SW6010C
Mercury	0.14	0.03	mg/Kg	1	01/18/16	RS	SW7471B
Nickel	9.46	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Potassium	648	4.9	mg/Kg	1	01/13/16	LK	SW6010C
Selenium	< 1.3	1.3	mg/Kg	1	01/13/16	LK	SW6010C
Silver	< 0.32	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Sodium	170	4.9	mg/Kg	1	01/13/16	LK	SW6010C
Thallium	< 2.9	2.9	mg/Kg	1	01/13/16	LK	SW6010C
Vanadium	22.4	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Zinc	60.5	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Percent Solid	93		%		01/12/16	W	SW846-%Solid
Soil Extraction for PCB	Completed				01/12/16	NB	SW3545A
Soil Extraction for Pest	Completed				01/12/16	NB	SW3545A
Soil Extraction for SVOA	Completed				01/12/16	NB/CKV	SW3545A
Mercury Digestion	Completed				01/17/16	W/W	SW7471B

Project ID: 150299
Client ID: SP-2 (0-2 FT)

Phoenix I.D.: BK51406

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				01/12/16	G/AG	SW3050B
Field Extraction	Completed				01/11/16		SW5035A
Polychlorinated Biphenyls							
PCB-1016	ND	0.071	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1221	ND	0.071	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1232	ND	0.071	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1242	ND	0.071	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1248	ND	0.071	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1254	ND	0.071	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1260	ND	0.071	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1262	ND	0.071	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1268	ND	0.071	mg/Kg	2	01/14/16	AW	SW8082A
QA/QC Surrogates							
% DCBP	88		%	2	01/14/16	AW	30 - 150 %
% TCMX	78		%	2	01/14/16	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	0.0021	mg/Kg	2	01/14/16	CE	SW8081B
4,4' -DDE	0.0056	0.0021	mg/Kg	2	01/14/16	CE	SW8081B
4,4' -DDT	0.019	0.0021	mg/Kg	2	01/14/16	CE	SW8081B
a-BHC	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
a-Chlordane	0.061	0.018	mg/Kg	10	01/14/16	CE	SW8081B
Aldrin	ND	0.0035	mg/Kg	2	01/14/16	CE	SW8081B
b-BHC	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
Chlordane	0.65	0.18	mg/Kg	10	01/14/16	CE	SW8081B
d-BHC	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
Dieldrin	ND	0.0035	mg/Kg	2	01/14/16	CE	SW8081B
Endosulfan I	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
Endosulfan II	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
Endosulfan sulfate	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
Endrin	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
Endrin aldehyde	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
Endrin ketone	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	01/14/16	CE	SW8081B
g-Chlordane	0.073	0.018	mg/Kg	10	01/14/16	CE	SW8081B
Heptachlor	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
Heptachlor epoxide	ND	0.0071	mg/Kg	2	01/14/16	CE	SW8081B
Methoxychlor	ND	0.035	mg/Kg	2	01/14/16	CE	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	01/14/16	CE	SW8081B
QA/QC Surrogates							
% DCBP	85		%	2	01/14/16	CE	30 - 150 %
% TCMX	68		%	2	01/14/16	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C
1,1-Dichloroethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C

Project ID: 150299
Client ID: SP-2 (0-2 FT)

Phoenix I.D.: BK51406

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,1-Dichloropropene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichloropropane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromoethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichlorobenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloroethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloropropane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichlorobenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichloropropane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
1,4-Dichlorobenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
2,2-Dichloropropane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Chlorotoluene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Hexanone	ND	0.025	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Isopropyltoluene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	1
4-Chlorotoluene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	01/12/16	JLI	SW8260C	
Acetone	ND	0.025	mg/Kg	1	01/12/16	JLI	SW8260C	
Acrylonitrile	ND	0.0099	mg/Kg	1	01/12/16	JLI	SW8260C	
Benzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromobenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromochloromethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromodichloromethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromoform	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromomethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon Disulfide	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Chlorobenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroform	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloromethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromochloromethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromomethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Ethylbenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Isopropylbenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
m&p-Xylene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.0099	mg/Kg	1	01/12/16	JLI	SW8260C	
Methylene chloride	ND	0.0099	mg/Kg	1	01/12/16	JLI	SW8260C	
Naphthalene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
n-Butylbenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	

Project ID: 150299
Client ID: SP-2 (0-2 FT)

Phoenix I.D.: BK51406

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Propylbenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
o-Xylene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Styrene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrachloroethene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.0099	mg/Kg	1	01/12/16	JLI	SW8260C	1
Toluene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Total Xylenes	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	0.0099	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichloroethene	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
Vinyl chloride	ND	0.0049	mg/Kg	1	01/12/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	101		%	1	01/12/16	JLI	70 - 130 %	
% Bromofluorobenzene	93		%	1	01/12/16	JLI	70 - 130 %	
% Dibromofluoromethane	100		%	1	01/12/16	JLI	70 - 130 %	
% Toluene-d8	98		%	1	01/12/16	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
1,2,4-Trichlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Dichlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Diphenylhydrazine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
1,3-Dichlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
1,4-Dichlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dichlorophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dimethylphenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrophenol	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrotoluene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,6-Dinitrotoluene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Chloronaphthalene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Chlorophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylnaphthalene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitroaniline	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitrophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
3-Nitroaniline	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloroaniline	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D

Project ID: 150299
Client ID: SP-2 (0-2 FT)

Phoenix I.D.: BK51406

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorophenyl phenyl ether	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitroaniline	ND	0.56	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitrophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthylene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Acetophenone	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Aniline	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Anthracene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benz(a)anthracene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzidine	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(a)pyrene	0.44	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(b)fluoranthene	0.33	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(ghi)perylene	0.32	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(k)fluoranthene	0.29	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzoic acid	ND	0.7	mg/Kg	1	01/13/16	DD	SW8270D	1
Benzyl butyl phthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	0.26	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Carbazole	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Chrysene	0.25	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenz(a,h)anthracene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenzofuran	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Diethyl phthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Dimethylphthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-butylphthalate	0.95	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-octylphthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Fluoranthene	0.42	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Fluorene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobutadiene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorocyclopentadiene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachloroethane	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	0.37	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Isophorone	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Naphthalene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Nitrobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodimethylamine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodiphenylamine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachloronitrobenzene	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachlorophenol	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Phenanthrene	0.26	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Phenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Pyrene	0.4	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Pyridine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	85		%	1	01/13/16	DD	30 - 130 %	

Project ID: 150299
Client ID: SP-2 (0-2 FT)

Phoenix I.D.: BK51406

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	79		%	1	01/13/16	DD	30 - 130 %
% 2-Fluorophenol	44		%	1	01/13/16	DD	30 - 130 %
% Nitrobenzene-d5	77		%	1	01/13/16	DD	30 - 130 %
% Phenol-d5	58		%	1	01/13/16	DD	30 - 130 %
% Terphenyl-d14	68		%	1	01/13/16	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	10:20
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51407

Project ID: 150299
Client ID: SP-2 (2-4 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	8030	56	mg/Kg	10	01/13/16	LK	SW6010C
Antimony	< 3.7	3.7	mg/Kg	1	01/13/16	LK	SW6010C
Arsenic	11.1	0.7	mg/Kg	1	01/13/16	LK	SW6010C
Barium	148	0.37	mg/Kg	1	01/13/16	LK	SW6010C
Beryllium	0.33	0.30	mg/Kg	1	01/13/16	LK	SW6010C
Calcium	7800	5.6	mg/Kg	1	01/13/16	LK	SW6010C
Cadmium	1.00	0.37	mg/Kg	1	01/13/16	LK	SW6010C
Chromium	20.5	0.37	mg/Kg	1	01/13/16	LK	SW6010C
Cobalt	7.66	0.37	mg/Kg	1	01/13/16	LK	SW6010C
Copper	70.1	0.37	mg/kg	1	01/13/16	LK	SW6010C
Iron	20600	56	mg/Kg	10	01/13/16	LK	SW6010C
Lead	273	3.7	mg/Kg	10	01/13/16	LK	SW6010C
Magnesium	2030	5.6	mg/Kg	1	01/13/16	LK	SW6010C
Manganese	659	3.7	mg/Kg	10	01/13/16	LK	SW6010C
Mercury	0.76	0.03	mg/Kg	1	01/18/16	RS	SW7471B
Nickel	21.4	0.37	mg/Kg	1	01/13/16	LK	SW6010C
Potassium	1220	5.6	mg/Kg	1	01/13/16	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	01/13/16	LK	SW6010C
Silver	< 0.37	0.37	mg/Kg	1	01/13/16	LK	SW6010C
Sodium	148	5.6	mg/Kg	1	01/13/16	LK	SW6010C
Thallium	< 3.4	3.4	mg/Kg	1	01/13/16	LK	SW6010C
Vanadium	28.3	0.37	mg/Kg	1	01/13/16	LK	SW6010C
Zinc	239	3.7	mg/Kg	10	01/13/16	LK	SW6010C
Percent Solid	86		%		01/12/16	W	SW846-%Solid
Soil Extraction for PCB	Completed				01/12/16	NB	SW3545A
Soil Extraction for Pest	Completed				01/12/16	NB	SW3545A
Soil Extraction for SVOA	Completed				01/12/16	NB/CKV	SW3545A
Mercury Digestion	Completed				01/17/16	W/W	SW7471B

Project ID: 150299
Client ID: SP-2 (2-4 FT)

Phoenix I.D.: BK51407

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				01/12/16	G/AG	SW3050B
Field Extraction	Completed				01/11/16		SW5035A
Polychlorinated Biphenyls							
PCB-1016	ND	0.078	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1221	ND	0.078	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1232	ND	0.078	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1242	ND	0.078	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1248	ND	0.078	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1254	ND	0.078	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1260	ND	0.078	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1262	ND	0.078	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1268	ND	0.078	mg/Kg	2	01/13/16	AW	SW8082A
QA/QC Surrogates							
% DCBP	91		%	2	01/13/16	AW	30 - 150 %
% TCMX	75		%	2	01/13/16	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	0.026	0.0023	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDE	0.023	0.0023	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDT	0.072	0.0023	mg/Kg	2	01/13/16	CE	SW8081B
a-BHC	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
a-Chlordane	0.01	0.0039	mg/Kg	2	01/13/16	CE	SW8081B
Aldrin	ND	0.0039	mg/Kg	2	01/13/16	CE	SW8081B
b-BHC	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
Chlordane	0.094	0.039	mg/Kg	2	01/13/16	CE	SW8081B
d-BHC	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
Dieldrin	0.0085	0.0039	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
Endrin	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	01/13/16	CE	SW8081B
g-Chlordane	0.012	0.0039	mg/Kg	2	01/13/16	CE	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	01/13/16	CE	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	01/13/16	CE	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	01/13/16	CE	SW8081B
QA/QC Surrogates							
% DCBP	90		%	2	01/13/16	CE	30 - 150 %
% TCMX	75		%	2	01/13/16	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C
1,1-Dichloroethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C

Project ID: 150299
Client ID: SP-2 (2-4 FT)

Phoenix I.D.: BK51407

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,1-Dichloropropene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichloropropane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromoethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichlorobenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloroethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloropropane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichlorobenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichloropropane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
1,4-Dichlorobenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
2,2-Dichloropropane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Chlorotoluene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Hexanone	ND	0.034	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Isopropyltoluene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	1
4-Chlorotoluene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
4-Methyl-2-pentanone	ND	0.034	mg/Kg	1	01/12/16	JLI	SW8260C	
Acetone	ND	0.034	mg/Kg	1	01/12/16	JLI	SW8260C	
Acrylonitrile	ND	0.014	mg/Kg	1	01/12/16	JLI	SW8260C	
Benzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromobenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromochloromethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromodichloromethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromoform	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromomethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon Disulfide	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Chlorobenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroform	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloromethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromochloromethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromomethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Ethylbenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Isopropylbenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
m&p-Xylene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	0.034	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.014	mg/Kg	1	01/12/16	JLI	SW8260C	
Methylene chloride	ND	0.014	mg/Kg	1	01/12/16	JLI	SW8260C	
Naphthalene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
n-Butylbenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	

Project ID: 150299
Client ID: SP-2 (2-4 FT)

Phoenix I.D.: BK51407

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Propylbenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
o-Xylene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Styrene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrachloroethene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.014	mg/Kg	1	01/12/16	JLI	SW8260C	1
Toluene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Total Xylenes	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	0.014	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichloroethene	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
Vinyl chloride	ND	0.0068	mg/Kg	1	01/12/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99		%	1	01/12/16	JLI	70 - 130 %	
% Bromofluorobenzene	94		%	1	01/12/16	JLI	70 - 130 %	
% Dibromofluoromethane	101		%	1	01/12/16	JLI	70 - 130 %	
% Toluene-d8	98		%	1	01/12/16	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
1,2,4-Trichlorobenzene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Dichlorobenzene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Diphenylhydrazine	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D
1,3-Dichlorobenzene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
1,4-Dichlorobenzene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dichlorophenol	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dimethylphenol	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrophenol	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrotoluene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2,6-Dinitrotoluene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2-Chloronaphthalene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2-Chlorophenol	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylnaphthalene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitroaniline	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitrophenol	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
3-Nitroaniline	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloroaniline	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D

Project ID: 150299
Client ID: SP-2 (2-4 FT)

Phoenix I.D.: BK51407

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorophenyl phenyl ether	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitroaniline	ND	0.61	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitrophenol	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthylene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Acetophenone	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Aniline	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D	
Anthracene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Benz(a)anthracene	0.49	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Benzidine	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(a)pyrene	0.48	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(b)fluoranthene	0.45	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(ghi)perylene	0.38	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(k)fluoranthene	0.41	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Benzoic acid	ND	0.76	mg/Kg	1	01/13/16	DD	SW8270D	1
Benzyl butyl phthalate	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	10	1.3	mg/Kg	5	01/13/16	DD	SW8270D	
Carbazole	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D	
Chrysene	0.49	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenzofuran	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Diethyl phthalate	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Dimethylphthalate	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-butylphthalate	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-octylphthalate	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Fluoranthene	0.84	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Fluorene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobenzene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobutadiene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorocyclopentadiene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachloroethane	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	0.42	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Isophorone	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Naphthalene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Nitrobenzene	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodimethylamine	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodiphenylamine	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachloronitrobenzene	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachlorophenol	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D	
Phenanthrene	0.52	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Phenol	ND	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Pyrene	0.9	0.27	mg/Kg	1	01/13/16	DD	SW8270D	
Pyridine	ND	0.38	mg/Kg	1	01/13/16	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	90		%	1	01/13/16	DD	30 - 130 %	

Project ID: 150299
Client ID: SP-2 (2-4 FT)

Phoenix I.D.: BK51407

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	75		%	1	01/13/16	DD	30 - 130 %
% 2-Fluorophenol	45		%	1	01/13/16	DD	30 - 130 %
% Nitrobenzene-d5	73		%	1	01/13/16	DD	30 - 130 %
% Phenol-d5	56		%	1	01/13/16	DD	30 - 130 %
% Terphenyl-d14	71		%	1	01/13/16	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	10:50
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51408

Project ID: 150299
Client ID: SP-3 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	2720	55	mg/Kg	10	01/13/16	LK	SW6010C
Antimony	< 3.6	3.6	mg/Kg	1	01/13/16	LK	SW6010C
Arsenic	< 0.7	0.7	mg/Kg	1	01/13/16	LK	SW6010C
Barium	21.7	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Beryllium	< 0.29	0.29	mg/Kg	1	01/13/16	LK	SW6010C
Calcium	2940	5.5	mg/Kg	1	01/13/16	LK	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Chromium	8.80	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Cobalt	3.33	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Copper	12.4	0.36	mg/kg	1	01/13/16	LK	SW6010C
Iron	10400	55	mg/Kg	10	01/13/16	LK	SW6010C
Lead	25.6	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Magnesium	1260	5.5	mg/Kg	1	01/13/16	LK	SW6010C
Manganese	303	3.6	mg/Kg	10	01/13/16	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	01/18/16	RS	SW7471B
Nickel	6.35	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Potassium	411	5.5	mg/Kg	1	01/13/16	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	01/13/16	LK	SW6010C
Silver	< 0.36	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Sodium	69.5	5.5	mg/Kg	1	01/13/16	LK	SW6010C
Thallium	< 3.3	3.3	mg/Kg	1	01/13/16	LK	SW6010C
Vanadium	11.6	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Zinc	23.0	0.36	mg/Kg	1	01/13/16	LK	SW6010C
Percent Solid	94		%		01/12/16	W	SW846-%Solid
Soil Extraction for PCB	Completed				01/12/16	NB	SW3545A
Soil Extraction for Pest	Completed				01/12/16	NB	SW3545A
Soil Extraction for SVOA	Completed				01/12/16	NB/CKV	SW3545A
Mercury Digestion	Completed				01/17/16	W/W	SW7471B

Project ID: 150299
Client ID: SP-3 (0-2 FT)

Phoenix I.D.: BK51408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				01/12/16	G/AG	SW3050B
Field Extraction	Completed				01/11/16		SW5035A
Polychlorinated Biphenyls							
PCB-1016	ND	0.069	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1221	ND	0.069	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1232	ND	0.069	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1242	ND	0.069	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1248	ND	0.069	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1254	ND	0.069	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1260	ND	0.069	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1262	ND	0.069	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1268	ND	0.069	mg/Kg	2	01/14/16	AW	SW8082A
QA/QC Surrogates							
% DCBP	87		%	2	01/14/16	AW	30 - 150 %
% TCMX	79		%	2	01/14/16	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	0.0021	mg/Kg	2	01/14/16	CE	SW8081B
4,4' -DDE	ND	0.0033	mg/Kg	2	01/14/16	CE	SW8081B
4,4' -DDT	0.0059	0.0021	mg/Kg	2	01/14/16	CE	SW8081B
a-BHC	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
a-Chlordane	0.043	0.017	mg/Kg	10	01/14/16	CE	SW8081B
Aldrin	ND	0.0035	mg/Kg	2	01/14/16	CE	SW8081B
b-BHC	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
Chlordane	0.47	0.17	mg/Kg	10	01/14/16	CE	SW8081B
d-BHC	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
Dieldrin	ND	0.0035	mg/Kg	2	01/14/16	CE	SW8081B
Endosulfan I	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
Endosulfan II	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
Endosulfan sulfate	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
Endrin	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
Endrin aldehyde	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
Endrin ketone	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	01/14/16	CE	SW8081B
g-Chlordane	0.048	0.017	mg/Kg	10	01/14/16	CE	SW8081B
Heptachlor	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
Heptachlor epoxide	ND	0.0069	mg/Kg	2	01/14/16	CE	SW8081B
Methoxychlor	ND	0.035	mg/Kg	2	01/14/16	CE	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	01/14/16	CE	SW8081B
QA/QC Surrogates							
% DCBP	89		%	2	01/14/16	CE	30 - 150 %
% TCMX	70		%	2	01/14/16	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C
1,1-Dichloroethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C

Project ID: 150299
Client ID: SP-3 (0-2 FT)

Phoenix I.D.: BK51408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,1-Dichloropropene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichloropropane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromoethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichlorobenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloroethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloropropane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichlorobenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichloropropane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
1,4-Dichlorobenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
2,2-Dichloropropane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Chlorotoluene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Hexanone	ND	0.042	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Isopropyltoluene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	1
4-Chlorotoluene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
4-Methyl-2-pentanone	ND	0.042	mg/Kg	1	01/12/16	JLI	SW8260C	
Acetone	ND	0.042	mg/Kg	1	01/12/16	JLI	SW8260C	
Acrylonitrile	ND	0.017	mg/Kg	1	01/12/16	JLI	SW8260C	
Benzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromobenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromochloromethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromodichloromethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromoform	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromomethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon Disulfide	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Chlorobenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroform	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloromethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromochloromethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromomethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Ethylbenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Isopropylbenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
m&p-Xylene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	0.042	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.017	mg/Kg	1	01/12/16	JLI	SW8260C	
Methylene chloride	ND	0.017	mg/Kg	1	01/12/16	JLI	SW8260C	
Naphthalene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
n-Butylbenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	

Project ID: 150299
Client ID: SP-3 (0-2 FT)

Phoenix I.D.: BK51408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Propylbenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
o-Xylene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Styrene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrachloroethene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.017	mg/Kg	1	01/12/16	JLI	SW8260C	1
Toluene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Total Xylenes	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	0.017	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichloroethene	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
Vinyl chloride	ND	0.0085	mg/Kg	1	01/12/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99		%	1	01/12/16	JLI	70 - 130 %	
% Bromofluorobenzene	96		%	1	01/12/16	JLI	70 - 130 %	
% Dibromofluoromethane	94		%	1	01/12/16	JLI	70 - 130 %	
% Toluene-d8	97		%	1	01/12/16	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
1,2,4-Trichlorobenzene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Dichlorobenzene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Diphenylhydrazine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
1,3-Dichlorobenzene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
1,4-Dichlorobenzene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dichlorophenol	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dimethylphenol	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrophenol	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrotoluene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2,6-Dinitrotoluene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2-Chloronaphthalene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2-Chlorophenol	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylnaphthalene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitroaniline	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitrophenol	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
3-Nitroaniline	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloroaniline	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D

Project ID: 150299
Client ID: SP-3 (0-2 FT)

Phoenix I.D.: BK51408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorophenyl phenyl ether	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitroaniline	ND	0.57	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitrophenol	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthylene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Acetophenone	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Aniline	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Anthracene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Benz(a)anthracene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Benzidine	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(a)pyrene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(b)fluoranthene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Benzoic acid	ND	0.71	mg/Kg	1	01/13/16	DD	SW8270D	1
Benzyl butyl phthalate	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Carbazole	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Chrysene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenzofuran	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Diethyl phthalate	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Dimethylphthalate	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-butylphthalate	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-octylphthalate	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Fluoranthene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Fluorene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobenzene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobutadiene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorocyclopentadiene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachloroethane	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Isophorone	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Naphthalene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Nitrobenzene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodimethylamine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodiphenylamine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachloronitrobenzene	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachlorophenol	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Phenanthrene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Phenol	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Pyrene	ND	0.25	mg/Kg	1	01/13/16	DD	SW8270D	
Pyridine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	74		%	1	01/13/16	DD	30 - 130 %	

Project ID: 150299
Client ID: SP-3 (0-2 FT)

Phoenix I.D.: BK51408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	72		%	1	01/13/16	DD	30 - 130 %
% 2-Fluorophenol	42		%	1	01/13/16	DD	30 - 130 %
% Nitrobenzene-d5	74		%	1	01/13/16	DD	30 - 130 %
% Phenol-d5	57		%	1	01/13/16	DD	30 - 130 %
% Terphenyl-d14	69		%	1	01/13/16	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Pesticide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	10:55
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51409

Project ID: 150299
Client ID: SP-3 (6-8 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	6670	63	mg/Kg	10	01/13/16	LK	SW6010C
Antimony	< 4.2	4.2	mg/Kg	1	01/13/16	LK	SW6010C
Arsenic	5.0	0.8	mg/Kg	1	01/13/16	LK	SW6010C
Barium	121	0.42	mg/Kg	1	01/13/16	LK	SW6010C
Beryllium	0.34	0.33	mg/Kg	1	01/13/16	LK	SW6010C
Calcium	2590	6.3	mg/Kg	1	01/13/16	LK	SW6010C
Cadmium	0.52	0.42	mg/Kg	1	01/13/16	LK	SW6010C
Chromium	18.2	0.42	mg/Kg	1	01/13/16	LK	SW6010C
Cobalt	7.32	0.42	mg/Kg	1	01/13/16	LK	SW6010C
Copper	70.7	0.42	mg/kg	1	01/13/16	LK	SW6010C
Iron	15000	63	mg/Kg	10	01/13/16	LK	SW6010C
Lead	382	4.2	mg/Kg	10	01/13/16	LK	SW6010C
Magnesium	1580	6.3	mg/Kg	1	01/13/16	LK	SW6010C
Manganese	345	4.2	mg/Kg	10	01/13/16	LK	SW6010C
Mercury	1.08	0.03	mg/Kg	1	01/18/16	RS	SW7471B
Nickel	13.4	0.42	mg/Kg	1	01/13/16	LK	SW6010C
Potassium	1000	6.3	mg/Kg	1	01/13/16	LK	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	01/13/16	LK	SW6010C
Silver	< 0.42	0.42	mg/Kg	1	01/13/16	LK	SW6010C
Sodium	130	6.3	mg/Kg	1	01/13/16	LK	SW6010C
Thallium	< 3.8	3.8	mg/Kg	1	01/13/16	LK	SW6010C
Vanadium	27.6	0.42	mg/Kg	1	01/13/16	LK	SW6010C
Zinc	355	4.2	mg/Kg	10	01/13/16	LK	SW6010C
Percent Solid	81		%		01/12/16	W	SW846-%Solid
Soil Extraction for PCB	Completed				01/12/16	NB	SW3545A
Soil Extraction for Pest	Completed				01/12/16	NB	SW3545A
Soil Extraction for SVOA	Completed				01/12/16	NB/CKV	SW3545A
Mercury Digestion	Completed				01/17/16	W/W	SW7471B

Project ID: 150299
Client ID: SP-3 (6-8 FT)

Phoenix I.D.: BK51409

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				01/12/16	G/AG	SW3050B
Field Extraction	Completed				01/11/16		SW5035A
Polychlorinated Biphenyls							
PCB-1016	ND	0.082	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1221	ND	0.082	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1232	ND	0.082	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1242	ND	0.082	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1248	ND	0.082	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1254	ND	0.082	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1260	ND	0.082	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1262	ND	0.082	mg/Kg	2	01/13/16	AW	SW8082A
PCB-1268	ND	0.082	mg/Kg	2	01/13/16	AW	SW8082A
QA/QC Surrogates							
% DCBP	82		%	2	01/13/16	AW	30 - 150 %
% TCMX	75		%	2	01/13/16	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	0.0057	0.0025	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDE	ND	0.0025	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDT	ND	0.0025	mg/Kg	2	01/13/16	CE	SW8081B
a-BHC	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
a-Chlordane	0.0071	0.0041	mg/Kg	2	01/13/16	CE	SW8081B
Aldrin	ND	0.0041	mg/Kg	2	01/13/16	CE	SW8081B
b-BHC	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
Chlordane	0.056	0.041	mg/Kg	2	01/13/16	CE	SW8081B
d-BHC	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
Dieldrin	ND	0.0041	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan I	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan II	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan sulfate	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
Endrin	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
Endrin aldehyde	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
Endrin ketone	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	01/13/16	CE	SW8081B
g-Chlordane	0.0081	0.0041	mg/Kg	2	01/13/16	CE	SW8081B
Heptachlor	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
Heptachlor epoxide	ND	0.0082	mg/Kg	2	01/13/16	CE	SW8081B
Methoxychlor	ND	0.041	mg/Kg	2	01/13/16	CE	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	01/13/16	CE	SW8081B
QA/QC Surrogates							
% DCBP	74		%	2	01/13/16	CE	30 - 150 %
% TCMX	71		%	2	01/13/16	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C
1,1-Dichloroethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C

Project ID: 150299
Client ID: SP-3 (6-8 FT)

Phoenix I.D.: BK51409

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,1-Dichloropropene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichloropropane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromoethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichlorobenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloroethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloropropane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichlorobenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichloropropane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
1,4-Dichlorobenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
2,2-Dichloropropane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Chlorotoluene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Hexanone	ND	0.04	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Isopropyltoluene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	1
4-Chlorotoluene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
4-Methyl-2-pentanone	ND	0.04	mg/Kg	1	01/12/16	JLI	SW8260C	
Acetone	ND	0.04	mg/Kg	1	01/12/16	JLI	SW8260C	
Acrylonitrile	ND	0.016	mg/Kg	1	01/12/16	JLI	SW8260C	
Benzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromobenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromochloromethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromodichloromethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromoform	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromomethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon Disulfide	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Chlorobenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroform	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloromethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromochloromethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromomethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Ethylbenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Isopropylbenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
m&p-Xylene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	0.04	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.016	mg/Kg	1	01/12/16	JLI	SW8260C	
Methylene chloride	ND	0.016	mg/Kg	1	01/12/16	JLI	SW8260C	
Naphthalene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
n-Butylbenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	

Project ID: 150299
Client ID: SP-3 (6-8 FT)

Phoenix I.D.: BK51409

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Propylbenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
o-Xylene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Styrene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrachloroethene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.016	mg/Kg	1	01/12/16	JLI	SW8260C	1
Toluene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Total Xylenes	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	0.016	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichloroethene	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
Vinyl chloride	ND	0.0079	mg/Kg	1	01/12/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99		%	1	01/12/16	JLI	70 - 130 %	
% Bromofluorobenzene	94		%	1	01/12/16	JLI	70 - 130 %	
% Dibromofluoromethane	100		%	1	01/12/16	JLI	70 - 130 %	
% Toluene-d8	97		%	1	01/12/16	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
1,2,4-Trichlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Dichlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Diphenylhydrazine	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
1,3-Dichlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
1,4-Dichlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dichlorophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dimethylphenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrophenol	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrotoluene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2,6-Dinitrotoluene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Chloronaphthalene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Chlorophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylnaphthalene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitroaniline	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitrophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
3-Nitroaniline	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloroaniline	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D

Project ID: 150299
Client ID: SP-3 (6-8 FT)

Phoenix I.D.: BK51409

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorophenyl phenyl ether	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitroaniline	ND	0.65	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitrophenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthylene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Acetophenone	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Aniline	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Anthracene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benz(a)anthracene	0.31	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzidine	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(a)pyrene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(b)fluoranthene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(ghi)perylene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(k)fluoranthene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Benzoic acid	ND	0.82	mg/Kg	1	01/13/16	DD	SW8270D	1
Benzyl butyl phthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Carbazole	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Chrysene	0.32	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenz(a,h)anthracene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenzofuran	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Diethyl phthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Dimethylphthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-butylphthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-octylphthalate	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Fluoranthene	0.49	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Fluorene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobutadiene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorocyclopentadiene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachloroethane	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Isophorone	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Naphthalene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Nitrobenzene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodimethylamine	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodiphenylamine	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachloronitrobenzene	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachlorophenol	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
Phenanthrene	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Phenol	ND	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Pyrene	0.54	0.29	mg/Kg	1	01/13/16	DD	SW8270D	
Pyridine	ND	0.41	mg/Kg	1	01/13/16	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	82		%	1	01/13/16	DD	30 - 130 %	

Project ID: 150299
Client ID: SP-3 (6-8 FT)

Phoenix I.D.: BK51409

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	74		%	1	01/13/16	DD	30 - 130 %
% 2-Fluorophenol	44		%	1	01/13/16	DD	30 - 130 %
% Nitrobenzene-d5	78		%	1	01/13/16	DD	30 - 130 %
% Phenol-d5	59		%	1	01/13/16	DD	30 - 130 %
% Terphenyl-d14	77		%	1	01/13/16	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	11:30
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51410

Project ID: 150299
Client ID: SP-4 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	3420	50	mg/Kg	10	01/13/16	LK	SW6010C
Antimony	< 3.4	3.4	mg/Kg	1	01/13/16	LK	SW6010C
Arsenic	1.5	0.7	mg/Kg	1	01/13/16	LK	SW6010C
Barium	38.5	0.34	mg/Kg	1	01/13/16	LK	SW6010C
Beryllium	< 0.27	0.27	mg/Kg	1	01/13/16	LK	SW6010C
Calcium	2850	5.0	mg/Kg	1	01/13/16	LK	SW6010C
Cadmium	0.38	0.34	mg/Kg	1	01/13/16	LK	SW6010C
Chromium	10.3	0.34	mg/Kg	1	01/13/16	LK	SW6010C
Cobalt	4.13	0.34	mg/Kg	1	01/13/16	LK	SW6010C
Copper	15.5	0.34	mg/kg	1	01/13/16	LK	SW6010C
Iron	11900	50	mg/Kg	10	01/13/16	LK	SW6010C
Lead	45.5	0.34	mg/Kg	1	01/13/16	LK	SW6010C
Magnesium	1640	5.0	mg/Kg	1	01/13/16	LK	SW6010C
Manganese	263	3.4	mg/Kg	10	01/13/16	LK	SW6010C
Mercury	0.04	0.03	mg/Kg	1	01/18/16	RS	SW7471B
Nickel	8.71	0.34	mg/Kg	1	01/13/16	LK	SW6010C
Potassium	559	5.0	mg/Kg	1	01/13/16	LK	SW6010C
Selenium	< 1.3	1.3	mg/Kg	1	01/13/16	LK	SW6010C
Silver	< 0.34	0.34	mg/Kg	1	01/13/16	LK	SW6010C
Sodium	112	5.0	mg/Kg	1	01/13/16	LK	SW6010C
Thallium	< 3.0	3.0	mg/Kg	1	01/13/16	LK	SW6010C
Vanadium	16.6	0.34	mg/Kg	1	01/13/16	LK	SW6010C
Zinc	27.8	0.34	mg/Kg	1	01/13/16	LK	SW6010C
Percent Solid	94		%		01/12/16	W	SW846-%Solid
Soil Extraction for PCB	Completed				01/12/16	NB	SW3545A
Soil Extraction for Pest	Completed				01/12/16	NB	SW3545A
Soil Extraction for SVOA	Completed				01/12/16	NB/CKV	SW3545A
Mercury Digestion	Completed				01/17/16	W/W	SW7471B

Project ID: 150299
Client ID: SP-4 (0-2 FT)

Phoenix I.D.: BK51410

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				01/12/16	G/AG	SW3050B
Field Extraction	Completed				01/11/16		SW5035A
Polychlorinated Biphenyls							
PCB-1016	ND	0.07	mg/Kg	2	01/15/16	AW	SW8082A
PCB-1221	ND	0.07	mg/Kg	2	01/15/16	AW	SW8082A
PCB-1232	ND	0.07	mg/Kg	2	01/15/16	AW	SW8082A
PCB-1242	ND	0.07	mg/Kg	2	01/15/16	AW	SW8082A
PCB-1248	ND	0.07	mg/Kg	2	01/15/16	AW	SW8082A
PCB-1254	ND	0.07	mg/Kg	2	01/15/16	AW	SW8082A
PCB-1260	ND	0.07	mg/Kg	2	01/15/16	AW	SW8082A
PCB-1262	ND	0.07	mg/Kg	2	01/15/16	AW	SW8082A
PCB-1268	ND	0.07	mg/Kg	2	01/15/16	AW	SW8082A
QA/QC Surrogates							
% DCBP	85		%	2	01/15/16	AW	30 - 150 %
% TCMX	73		%	2	01/15/16	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	0.028	0.0021	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDE	ND	0.003	mg/Kg	2	01/13/16	CE	SW8081B
4,4' -DDT	0.0068	0.0021	mg/Kg	2	01/13/16	CE	SW8081B
a-BHC	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
a-Chlordane	0.067	0.035	mg/Kg	20	01/14/16	CE	SW8081B
Aldrin	ND	0.0035	mg/Kg	2	01/13/16	CE	SW8081B
b-BHC	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
Chlordane	ND	0.35	mg/Kg	20	01/14/16	CE	SW8081B
d-BHC	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
Dieldrin	ND	0.0035	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan I	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan II	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
Endosulfan sulfate	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
Endrin	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
Endrin aldehyde	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
Endrin ketone	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	01/13/16	CE	SW8081B
g-Chlordane	0.08	0.035	mg/Kg	20	01/14/16	CE	SW8081B
Heptachlor	0.0078	0.007	mg/Kg	2	01/13/16	CE	SW8081B
Heptachlor epoxide	ND	0.007	mg/Kg	2	01/13/16	CE	SW8081B
Methoxychlor	ND	0.035	mg/Kg	2	01/13/16	CE	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	01/13/16	CE	SW8081B
QA/QC Surrogates							
% DCBP	71		%	2	01/13/16	CE	30 - 150 %
% TCMX	63		%	2	01/13/16	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C

Project ID: 150299
Client ID: SP-4 (0-2 FT)

Phoenix I.D.: BK51410

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,1-Dichloropropene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromoethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloroethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloropropane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichloropropane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
2,2-Dichloropropane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Chlorotoluene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Hexanone	ND	0.025	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Isopropyltoluene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	1
4-Chlorotoluene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	01/12/16	JLI	SW8260C	
Acetone	ND	0.025	mg/Kg	1	01/12/16	JLI	SW8260C	
Acrylonitrile	ND	0.01	mg/Kg	1	01/12/16	JLI	SW8260C	
Benzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromobenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromochloromethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromodichloromethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromoform	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromomethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon Disulfide	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Chlorobenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroform	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloromethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromochloromethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromomethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Ethylbenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Isopropylbenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
m&p-Xylene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	01/12/16	JLI	SW8260C	
Methylene chloride	ND	0.01	mg/Kg	1	01/12/16	JLI	SW8260C	
Naphthalene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
n-Butylbenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	

Project ID: 150299
Client ID: SP-4 (0-2 FT)

Phoenix I.D.: BK51410

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Propylbenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
o-Xylene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Styrene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrachloroethene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	01/12/16	JLI	SW8260C	1
Toluene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Total Xylenes	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichloroethene	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
Vinyl chloride	ND	0.005	mg/Kg	1	01/12/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	96		%	1	01/12/16	JLI	70 - 130 %	
% Bromofluorobenzene	95		%	1	01/12/16	JLI	70 - 130 %	
% Dibromofluoromethane	96		%	1	01/12/16	JLI	70 - 130 %	
% Toluene-d8	97		%	1	01/12/16	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
1,2,4-Trichlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Dichlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Diphenylhydrazine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
1,3-Dichlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
1,4-Dichlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dichlorophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dimethylphenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrophenol	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrotoluene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2,6-Dinitrotoluene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Chloronaphthalene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Chlorophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylnaphthalene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitroaniline	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitrophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
3-Nitroaniline	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloroaniline	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D

Project ID: 150299
Client ID: SP-4 (0-2 FT)

Phoenix I.D.: BK51410

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorophenyl phenyl ether	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitroaniline	ND	0.56	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitrophenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthylene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Acetophenone	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Aniline	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Anthracene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benz(a)anthracene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzidine	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(a)pyrene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(b)fluoranthene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(ghi)perylene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(k)fluoranthene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Benzoic acid	ND	0.69	mg/Kg	1	01/13/16	DD	SW8270D	1
Benzyl butyl phthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Carbazole	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Chrysene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenz(a,h)anthracene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenzofuran	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Diethyl phthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Dimethylphthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-butylphthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-octylphthalate	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Fluoranthene	0.37	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Fluorene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobutadiene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorocyclopentadiene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachloroethane	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Isophorone	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Naphthalene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Nitrobenzene	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodimethylamine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodiphenylamine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachloronitrobenzene	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachlorophenol	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
Phenanthrene	0.4	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Phenol	ND	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Pyrene	0.33	0.24	mg/Kg	1	01/13/16	DD	SW8270D	
Pyridine	ND	0.35	mg/Kg	1	01/13/16	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	79		%	1	01/13/16	DD	30 - 130 %	

Project ID: 150299
Client ID: SP-4 (0-2 FT)

Phoenix I.D.: BK51410

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	78		%	1	01/13/16	DD	30 - 130 %
% 2-Fluorophenol	43		%	1	01/13/16	DD	30 - 130 %
% Nitrobenzene-d5	77		%	1	01/13/16	DD	30 - 130 %
% Phenol-d5	60		%	1	01/13/16	DD	30 - 130 %
% Terphenyl-d14	72		%	1	01/13/16	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	11:35
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51411

Project ID: 150299
Client ID: SP-4 (6-8 FT)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	10700	60	mg/Kg	10	01/13/16	LK	SW6010C
Antimony	< 4.0	4.0	mg/Kg	1	01/13/16	LK	SW6010C
Arsenic	3.6	0.8	mg/Kg	1	01/13/16	LK	SW6010C
Barium	79.0	0.40	mg/Kg	1	01/13/16	LK	SW6010C
Beryllium	0.58	0.32	mg/Kg	1	01/13/16	LK	SW6010C
Calcium	1170	6.0	mg/Kg	1	01/13/16	LK	SW6010C
Cadmium	0.49	0.40	mg/Kg	1	01/13/16	LK	SW6010C
Chromium	24.6	0.40	mg/Kg	1	01/13/16	LK	SW6010C
Cobalt	10.5	0.40	mg/Kg	1	01/13/16	LK	SW6010C
Copper	25.1	0.40	mg/kg	1	01/13/16	LK	SW6010C
Iron	21600	60	mg/Kg	10	01/13/16	LK	SW6010C
Lead	67.0	0.40	mg/Kg	1	01/13/16	LK	SW6010C
Magnesium	2790	6.0	mg/Kg	1	01/13/16	LK	SW6010C
Manganese	265	4.0	mg/Kg	10	01/13/16	LK	SW6010C
Mercury	0.54	0.03	mg/Kg	1	01/18/16	RS	SW7471B
Nickel	22.0	0.40	mg/Kg	1	01/13/16	LK	SW6010C
Potassium	1770	6.0	mg/Kg	1	01/13/16	LK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	01/13/16	LK	SW6010C
Silver	< 0.40	0.40	mg/Kg	1	01/13/16	LK	SW6010C
Sodium	93.7	6.0	mg/Kg	1	01/13/16	LK	SW6010C
Thallium	< 3.6	3.6	mg/Kg	1	01/13/16	LK	SW6010C
Vanadium	35.8	0.40	mg/Kg	1	01/13/16	LK	SW6010C
Zinc	241	4.0	mg/Kg	10	01/13/16	LK	SW6010C
Percent Solid	82		%		01/12/16	W	SW846-%Solid
Soil Extraction for PCB	Completed				01/12/16	NB	SW3545A
Soil Extraction for Pest	Completed				01/12/16	NB	SW3545A
Soil Extraction for SVOA	Completed				01/12/16	NB/CKV	SW3545A
Mercury Digestion	Completed				01/17/16	W/W	SW7471B

Project ID: 150299
Client ID: SP-4 (6-8 FT)

Phoenix I.D.: BK51411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				01/12/16	G/AG	SW3050B
Field Extraction	Completed				01/11/16		SW5035A
Polychlorinated Biphenyls							
PCB-1016	ND	0.081	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1221	ND	0.081	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1232	ND	0.081	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1242	ND	0.081	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1248	ND	0.081	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1254	ND	0.081	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1260	ND	0.081	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1262	ND	0.081	mg/Kg	2	01/14/16	AW	SW8082A
PCB-1268	ND	0.081	mg/Kg	2	01/14/16	AW	SW8082A
QA/QC Surrogates							
% DCBP	80		%	2	01/14/16	AW	30 - 150 %
% TCMX	66		%	2	01/14/16	AW	30 - 150 %
Pesticides - Soil							
4,4' -DDD	ND	0.0024	mg/Kg	2	01/14/16	CE	SW8081B
4,4' -DDE	ND	0.0024	mg/Kg	2	01/14/16	CE	SW8081B
4,4' -DDT	ND	0.0024	mg/Kg	2	01/14/16	CE	SW8081B
a-BHC	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
a-Chlordane	ND	0.004	mg/Kg	2	01/14/16	CE	SW8081B
Aldrin	ND	0.004	mg/Kg	2	01/14/16	CE	SW8081B
b-BHC	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
Chlordane	ND	0.04	mg/Kg	2	01/14/16	CE	SW8081B
d-BHC	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
Dieldrin	ND	0.004	mg/Kg	2	01/14/16	CE	SW8081B
Endosulfan I	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
Endosulfan II	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
Endosulfan sulfate	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
Endrin	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
Endrin aldehyde	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
Endrin ketone	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	01/14/16	CE	SW8081B
g-Chlordane	ND	0.004	mg/Kg	2	01/14/16	CE	SW8081B
Heptachlor	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
Heptachlor epoxide	ND	0.0081	mg/Kg	2	01/14/16	CE	SW8081B
Methoxychlor	ND	0.04	mg/Kg	2	01/14/16	CE	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	01/14/16	CE	SW8081B
QA/QC Surrogates							
% DCBP	72		%	2	01/14/16	CE	30 - 150 %
% TCMX	47		%	2	01/14/16	CE	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C
1,1-Dichloroethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C

Project ID: 150299
Client ID: SP-4 (6-8 FT)

Phoenix I.D.: BK51411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,1-Dichloropropene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,3-Trichloropropane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dibromoethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichlorobenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloroethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,2-Dichloropropane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichlorobenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,3-Dichloropropane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
1,4-Dichlorobenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
2,2-Dichloropropane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Chlorotoluene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Hexanone	ND	0.024	mg/Kg	1	01/12/16	JLI	SW8260C	
2-Isopropyltoluene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	1
4-Chlorotoluene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
4-Methyl-2-pentanone	ND	0.024	mg/Kg	1	01/12/16	JLI	SW8260C	
Acetone	ND	0.024	mg/Kg	1	01/12/16	JLI	SW8260C	
Acrylonitrile	ND	0.0095	mg/Kg	1	01/12/16	JLI	SW8260C	
Benzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromobenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromochloromethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromodichloromethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromoform	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Bromomethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon Disulfide	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Chlorobenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloroform	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Chloromethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromochloromethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Dibromomethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Ethylbenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Isopropylbenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
m&p-Xylene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	01/12/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.0095	mg/Kg	1	01/12/16	JLI	SW8260C	
Methylene chloride	ND	0.0095	mg/Kg	1	01/12/16	JLI	SW8260C	
Naphthalene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
n-Butylbenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	

Project ID: 150299
Client ID: SP-4 (6-8 FT)

Phoenix I.D.: BK51411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Propylbenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
o-Xylene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Styrene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrachloroethene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.0095	mg/Kg	1	01/12/16	JLI	SW8260C	1
Toluene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Total Xylenes	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	0.0095	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichloroethene	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
Vinyl chloride	ND	0.0048	mg/Kg	1	01/12/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99		%	1	01/12/16	JLI	70 - 130 %	
% Bromofluorobenzene	96		%	1	01/12/16	JLI	70 - 130 %	
% Dibromofluoromethane	97		%	1	01/12/16	JLI	70 - 130 %	
% Toluene-d8	98		%	1	01/12/16	JLI	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
1,2,4-Trichlorobenzene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Dichlorobenzene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
1,2-Diphenylhydrazine	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D
1,3-Dichlorobenzene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
1,4-Dichlorobenzene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dichlorophenol	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dimethylphenol	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrophenol	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D
2,4-Dinitrotoluene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2,6-Dinitrotoluene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2-Chloronaphthalene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2-Chlorophenol	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylnaphthalene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitroaniline	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D
2-Nitrophenol	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
3-Nitroaniline	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D
4-Chloroaniline	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D

Project ID: 150299
Client ID: SP-4 (6-8 FT)

Phoenix I.D.: BK51411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Chlorophenyl phenyl ether	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitroaniline	ND	0.64	mg/Kg	1	01/13/16	DD	SW8270D	
4-Nitrophenol	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Acenaphthylene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Acetophenone	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Aniline	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D	
Anthracene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Benz(a)anthracene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Benzidine	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(a)pyrene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(b)fluoranthene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(ghi)perylene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Benzo(k)fluoranthene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Benzoic acid	ND	0.8	mg/Kg	1	01/13/16	DD	SW8270D	1
Benzyl butyl phthalate	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Carbazole	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D	
Chrysene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Dibenzofuran	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Diethyl phthalate	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Dimethylphthalate	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-butylphthalate	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Di-n-octylphthalate	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Fluoranthene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Fluorene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobenzene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorobutadiene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachlorocyclopentadiene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Hexachloroethane	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Isophorone	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Naphthalene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Nitrobenzene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodimethylamine	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
N-Nitrosodiphenylamine	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachloronitrobenzene	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D	
Pentachlorophenol	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D	
Phenanthrene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Phenol	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Pyrene	ND	0.28	mg/Kg	1	01/13/16	DD	SW8270D	
Pyridine	ND	0.4	mg/Kg	1	01/13/16	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	75		%	1	01/13/16	DD	30 - 130 %	

Project ID: 150299
Client ID: SP-4 (6-8 FT)

Phoenix I.D.: BK51411

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	64		%	1	01/13/16	DD	30 - 130 %
% 2-Fluorophenol	43		%	1	01/13/16	DD	30 - 130 %
% Nitrobenzene-d5	65		%	1	01/13/16	DD	30 - 130 %
% Phenol-d5	53		%	1	01/13/16	DD	30 - 130 %
% Terphenyl-d14	73		%	1	01/13/16	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	
Location Code:	HYDROBRO	Received by:	LK	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51518

Project ID: 150299
Client ID: TB LOW

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				01/11/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,1-Dichloroethene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,1-Dichloropropene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,2-Dibromoethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,2-Dichloroethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,2-Dichloropropane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,3-Dichloropropane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
2,2-Dichloropropane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
2-Chlorotoluene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	01/13/16	JLI	SW8260C
2-Isopropyltoluene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C 1
4-Chlorotoluene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C

Project ID: 150299
Client ID: TB LOW

Phoenix I.D.: BK51518

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	01/13/16	JLI	SW8260C	
Acetone	ND	0.025	mg/Kg	1	01/13/16	JLI	SW8260C	
Acrylonitrile	ND	0.01	mg/Kg	1	01/13/16	JLI	SW8260C	
Benzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Bromobenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Bromochloromethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Bromodichloromethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Bromoform	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Bromomethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Carbon Disulfide	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Chlorobenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Chloroethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Chloroform	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Chloromethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Dibromochloromethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Dibromomethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Ethylbenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Isopropylbenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
m&p-Xylene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	01/13/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	01/13/16	JLI	SW8260C	
Methylene chloride	ND	0.01	mg/Kg	1	01/13/16	JLI	SW8260C	
Naphthalene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
n-Butylbenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
n-Propylbenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
o-Xylene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Styrene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Tetrachloroethene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	01/13/16	JLI	SW8260C	1
Toluene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Total Xylenes	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	01/13/16	JLI	SW8260C	
Trichloroethene	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
Vinyl chloride	ND	0.005	mg/Kg	1	01/13/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	101		%	1	01/13/16	JLI	70 - 130 %	
% Bromofluorobenzene	98		%	1	01/13/16	JLI	70 - 130 %	

Project ID: 150299
Client ID: TB LOW

Phoenix I.D.: BK51518

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97		%	1	01/13/16	JLI	70 - 130 %
% Toluene-d8	99		%	1	01/13/16	JLI	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 20, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		01/11/16	
Location Code:	HYDROBRO	Received by:	LK	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK51404
Phoenix ID: BK51519

Project ID: 150299
Client ID: TB HIGH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Field Extraction	Completed				01/11/16		SW5035A	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,1,1-Trichloroethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,1,2-Trichloroethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,1-Dichloroethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,1-Dichloroethene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,1-Dichloropropene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,3-Trichloropropane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dibromoethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dichlorobenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dichloroethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,2-Dichloropropane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,3-Dichlorobenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,3-Dichloropropane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
1,4-Dichlorobenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
2,2-Dichloropropane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
2-Chlorotoluene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
2-Hexanone	ND	1.3	mg/Kg	50	01/13/16	JLI	SW8260C	
2-Isopropyltoluene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	1
4-Chlorotoluene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	

Project ID: 150299
Client ID: TB HIGH

Phoenix I.D.: BK51519

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	1.3	mg/Kg	50	01/13/16	JLI	SW8260C	
Acetone	ND	5	mg/Kg	50	01/13/16	JLI	SW8260C	
Acrylonitrile	ND	0.5	mg/Kg	50	01/13/16	JLI	SW8260C	
Benzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Bromobenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Bromochloromethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Bromodichloromethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Bromoform	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Bromomethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Carbon Disulfide	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Carbon tetrachloride	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Chlorobenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Chloroethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Chloroform	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Chloromethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Dibromochloromethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Dibromomethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Dichlorodifluoromethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Ethylbenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Hexachlorobutadiene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Isopropylbenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
m&p-Xylene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Methyl Ethyl Ketone	ND	3	mg/Kg	50	01/13/16	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Methylene chloride	ND	0.5	mg/Kg	50	01/13/16	JLI	SW8260C	
Naphthalene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
n-Butylbenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
n-Propylbenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
o-Xylene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
p-Isopropyltoluene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
sec-Butylbenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Styrene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
tert-Butylbenzene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Tetrachloroethene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Tetrahydrofuran (THF)	ND	0.5	mg/Kg	50	01/13/16	JLI	SW8260C	1
Toluene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Total Xylenes	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
trans-1,2-Dichloroethene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	0.5	mg/Kg	50	01/13/16	JLI	SW8260C	
Trichloroethene	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Trichlorofluoromethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Trichlorotrifluoroethane	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
Vinyl chloride	ND	0.25	mg/Kg	50	01/13/16	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	101		%	50	01/13/16	JLI	70 - 130 %	
% Bromofluorobenzene	99		%	50	01/13/16	JLI	70 - 130 %	

Project ID: 150299
Client ID: TB HIGH

Phoenix I.D.: BK51519

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	50	01/13/16	JLI	70 - 130 %
% Toluene-d8	99		%	50	01/13/16	JLI	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 20, 2016
Reviewed and Released by: Kathleen Cressia, QA/QC Officer

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

January 20, 2016

QA/QC Data

SDG I.D.: GBK51404

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 332433 (mg/kg), QC Sample No: BK51316 (BK51404, BK51405, BK51406, BK51407, BK51408)														
Mercury - Soil	BRL	0.06	0.14	0.03	NC	104	104	0.0	43.0	49.9	14.9	70 - 130	30	m
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 331778 (mg/kg), QC Sample No: BK51400 (BK51406, BK51407, BK51408, BK51409, BK51410, BK51411)														
ICP Metals - Soil														
Aluminum	BRL	5.0	11000	12800	15.1	111	108	2.7	NC	NC	NC	75 - 125	30	
Antimony	BRL	3.3							53.7	57.4	6.7	75 - 125	30	m
Arsenic	BRL	0.67	2.7	3.36	NC	112	107	4.6	89.9	93.2	3.6	75 - 125	30	
Barium	BRL	0.33	53.5	69.4	25.9	117	109	7.1	108	114	5.4	75 - 125	30	
Beryllium	BRL	0.27	0.60	0.69	NC	113	109	3.6	97.9	102	4.1	75 - 125	30	
Cadmium	BRL	0.33	0.21	0.22	NC	109	103	5.7	92.8	97.5	4.9	75 - 125	30	
Calcium	BRL	5.0	1400	1430	2.10	116	111	4.4	NC	NC	NC	75 - 125	30	
Chromium	BRL	0.33	24.4	28.9	16.9	116	113	2.6	101	108	6.7	75 - 125	30	
Cobalt	BRL	0.33	10.2	11.1	8.50	116	111	4.4	97.2	103	5.8	75 - 125	30	
Copper	BRL	0.33	19.1	22.0	14.1	119	117	1.7	108	114	5.4	75 - 125	30	
Iron	BRL	5.0	21800	24900	13.3	108	112	3.6	NC	NC	NC	75 - 125	30	
Lead	BRL	0.33	16.9	17.8	5.20	115	111	3.5	97.3	101	3.7	75 - 125	30	
Magnesium	BRL	5.0	3280	3990	19.5	104	102	1.9	NC	NC	NC	75 - 125	30	
Manganese	BRL	0.33	336	363	7.70	112	109	2.7	95.2	129	30.2	75 - 125	30	m
Nickel	BRL	0.33	17.5	20.2	14.3	117	112	4.4	97.3	102	4.7	75 - 125	30	
Potassium	BRL	5.0	1610	1960	19.6	116	112	3.5	>130	>130	NC	75 - 125	30	m
Selenium	BRL	1.3	<1.6	<1.7	NC	103	98.6	4.4	76.5	78.6	2.7	75 - 125	30	
Silver	BRL	0.33	<0.39	<0.42	NC	112	106	5.5	99.9	103	3.1	75 - 125	30	
Sodium	BRL	5.0	200	158	23.5	114	101	12.1	113	130	14.0	75 - 125	30	m
Thallium	BRL	3.0	<3.5	<3.8	NC	115	108	6.3	98.7	102	3.3	75 - 125	30	
Vanadium	BRL	0.33	32.8	38.0	14.7	113	110	2.7	102	108	5.7	75 - 125	30	
Zinc	BRL	0.33	45.0	51.9	14.2	110	106	3.7	89.6	92.1	2.8	75 - 125	30	
QA/QC Batch 332501 (mg/kg), QC Sample No: BK51404 (BK51404, BK51405)														
ICP Metals - Soil														
Aluminum	BRL	5.0	4810	6200	25.2	107	105	1.9	NC	NC	NC	75 - 125	30	
Antimony	BRL	3.3	24.9	19.9	NC	95.1	93.6	1.6	110	88.5	21.7	75 - 125	30	
Arsenic	BRL	0.67	24.3	22.5	7.70	106	104	1.9	84.3	91.6	8.3	75 - 125	30	
Barium	BRL	0.33	2270	2560	12.0	108	108	0.0	NC	NC	NC	75 - 125	30	
Beryllium	BRL	0.27	0.58	0.78	NC	109	103	5.7	90.1	97.4	7.8	75 - 125	30	
Cadmium	BRL	0.33	6.01	6.65	10.1	106	102	3.8	84.0	90.1	7.0	75 - 125	30	
Calcium	BRL	5.0	17000	24200	35.0	109	106	2.8	NC	NC	NC	75 - 125	30	r
Chromium	BRL	0.33	43.2	50.0	14.6	114	108	5.4	88.6	96.6	8.6	75 - 125	30	
Cobalt	BRL	0.33	10.5	11.3	7.30	113	106	6.4	76.0	82.1	7.7	75 - 125	30	
Copper	BRL	0.33	438	481	9.40	118	110	7.0	NC	NC	NC	75 - 125	30	
Iron	BRL	5.0	32900	33800	2.70	110	110	0.0	NC	NC	NC	75 - 125	30	
Lead	BRL	0.33	3620	3880	6.90	106	101	4.8	NC	NC	NC	75 - 125	30	

QA/QC Data

SDG I.D.: GBK51404

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Magnesium	BRL	5.0	1890	2100	10.5	99.1	95.8	3.4	NC	NC	NC	75 - 125	30	
Manganese	BRL	0.33	838	691	19.2	107	110	2.8	NC	NC	NC	75 - 125	30	
Nickel	BRL	0.33	29.0	32.9	12.6	115	106	8.1	82.8	93.1	11.7	75 - 125	30	
Potassium	BRL	5.0	648	819	23.3	114	111	2.7	>130	>130	NC	75 - 125	30	m
Selenium	BRL	1.3	<1.5	<1.7	NC	100	98.0	2.0	89.5	80.7	10.3	75 - 125	30	
Silver	BRL	0.33	2.22	2.32	4.40	106	103	2.9	94.8	104	9.3	75 - 125	30	
Sodium	BRL	5.0	215	1170	138	109	109	0.0	>130	>130	NC	75 - 125	30	m,r
Thallium	BRL	3.0	<3.5	<3.7	NC	110	112	1.8	88.2	95.8	8.3	75 - 125	30	
Vanadium	BRL	0.33	36.6	40.2	9.40	112	109	2.7	91.4	102	11.0	75 - 125	30	
Zinc	BRL	0.33	3890	8140	70.7	105	100	4.9	NC	NC	NC	75 - 125	30	r
QA/QC Batch 332434 (mg/kg), QC Sample No: BK53878 (BK51409, BK51410, BK51411)														
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	110	96.2	13.4	113	120	6.0	70 - 130	30	

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

January 20, 2016

QA/QC Data

SDG I.D.: GBK51404

QA/QC Batch 331855 (mg/Kg), QC Sample No: BK50487 (BK51408, BK51409, BK51410, BK51411)

Volatiles - Solid

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1,2-Tetrachloroethane	ND	0.005	108	113	4.5				70 - 130	30
1,1,1-Trichloroethane	ND	0.005	108	113	4.5				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	98	107	8.8				70 - 130	30
1,1,2-Trichloroethane	ND	0.005	99	110	10.5				70 - 130	30
1,1-Dichloroethane	ND	0.005	104	110	5.6				70 - 130	30
1,1-Dichloroethene	ND	0.005	112	116	3.5				70 - 130	30
1,1-Dichloropropene	ND	0.005	117	125	6.6				70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	102	109	6.6				70 - 130	30
1,2,3-Trichloropropane	ND	0.005	94	104	10.1				70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	109	113	3.6				70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	112	117	4.4				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	100	102	2.0				70 - 130	30
1,2-Dibromoethane	ND	0.005	103	108	4.7				70 - 130	30
1,2-Dichlorobenzene	ND	0.005	107	114	6.3				70 - 130	30
1,2-Dichloroethane	ND	0.005	104	111	6.5				70 - 130	30
1,2-Dichloropropane	ND	0.005	108	114	5.4				70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	113	118	4.3				70 - 130	30
1,3-Dichlorobenzene	ND	0.005	111	115	3.5				70 - 130	30
1,3-Dichloropropane	ND	0.005	100	106	5.8				70 - 130	30
1,4-Dichlorobenzene	ND	0.005	111	114	2.7				70 - 130	30
2,2-Dichloropropane	ND	0.005	108	112	3.6				70 - 130	30
2-Chlorotoluene	ND	0.005	115	120	4.3				70 - 130	30
2-Hexanone	ND	0.025	74	80	7.8				70 - 130	30
2-Isopropyltoluene	ND	0.005	113	118	4.3				70 - 130	30
4-Chlorotoluene	ND	0.005	112	113	0.9				70 - 130	30
4-Methyl-2-pentanone	ND	0.025	80	88	9.5				70 - 130	30
Acetone	ND	0.01	46	51	10.3				70 - 130	30
Acrylonitrile	ND	0.005	86	91	5.6				70 - 130	30
Benzene	ND	0.001	112	118	5.2				70 - 130	30
Bromobenzene	ND	0.005	111	117	5.3				70 - 130	30
Bromochloromethane	ND	0.005	106	113	6.4				70 - 130	30
Bromodichloromethane	ND	0.005	109	116	6.2				70 - 130	30
Bromoform	ND	0.005	95	102	7.1				70 - 130	30
Bromomethane	ND	0.005	120	126	4.9				70 - 130	30
Carbon Disulfide	ND	0.005	108	111	2.7				70 - 130	30
Carbon tetrachloride	ND	0.005	108	113	4.5				70 - 130	30
Chlorobenzene	ND	0.005	111	116	4.4				70 - 130	30
Chloroethane	ND	0.005	107	114	6.3				70 - 130	30
Chloroform	ND	0.005	106	110	3.7				70 - 130	30
Chloromethane	ND	0.005	103	107	3.8				70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	106	112	5.5				70 - 130	30

QA/QC Data

SDG I.D.: GBK51404

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	0.005	104	110	5.6				70 - 130	30
Dibromochloromethane	ND	0.003	105	110	4.7				70 - 130	30
Dibromomethane	ND	0.005	102	111	8.5				70 - 130	30
Dichlorodifluoromethane	ND	0.005	123	129	4.8				70 - 130	30
Ethylbenzene	ND	0.001	113	116	2.6				70 - 130	30
Hexachlorobutadiene	ND	0.005	114	118	3.4				70 - 130	30
Isopropylbenzene	ND	0.001	113	119	5.2				70 - 130	30
m&p-Xylene	ND	0.002	112	115	2.6				70 - 130	30
Methyl ethyl ketone	ND	0.005	78	89	13.2				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	102	109	6.6				70 - 130	30
Methylene chloride	ND	0.005	96	102	6.1				70 - 130	30
Naphthalene	ND	0.005	92	100	8.3				70 - 130	30
n-Butylbenzene	ND	0.001	115	119	3.4				70 - 130	30
n-Propylbenzene	ND	0.001	112	115	2.6				70 - 130	30
o-Xylene	ND	0.002	111	115	3.5				70 - 130	30
p-Isopropyltoluene	ND	0.001	116	121	4.2				70 - 130	30
sec-Butylbenzene	ND	0.001	115	120	4.3				70 - 130	30
Styrene	ND	0.005	104	109	4.7				70 - 130	30
tert-Butylbenzene	ND	0.001	112	117	4.4				70 - 130	30
Tetrachloroethene	ND	0.005	117	123	5.0				70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	78	86	9.8				70 - 130	30
Toluene	ND	0.001	112	118	5.2				70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	113	120	6.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	102	109	6.6				70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	95	102	7.1				70 - 130	30
Trichloroethene	ND	0.005	116	122	5.0				70 - 130	30
Trichlorofluoromethane	ND	0.005	117	122	4.2				70 - 130	30
Trichlorotrifluoroethane	ND	0.005	119	125	4.9				70 - 130	30
Vinyl chloride	ND	0.005	105	110	4.7				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	98	99	1.0				70 - 130	30
% Bromofluorobenzene	95	%	96	97	1.0				70 - 130	30
% Dibromofluoromethane	97	%	97	98	1.0				70 - 130	30
% Toluene-d8	97	%	100	101	1.0				70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 331874 (mg/Kg), QC Sample No: BK50853 (BK51404, BK51406, BK51407)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	0.005	109	108	0.9	86	100	15.1	70 - 130	30
1,1,1-Trichloroethane	ND	0.005	105	103	1.9	85	96	12.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	108	109	0.9	87	100	13.9	70 - 130	30
1,1,2-Trichloroethane	ND	0.005	103	103	0.0	85	98	14.2	70 - 130	30
1,1-Dichloroethane	ND	0.005	103	101	2.0	84	95	12.3	70 - 130	30
1,1-Dichloroethene	ND	0.005	107	107	0.0	76	80	5.1	70 - 130	30
1,1-Dichloropropene	ND	0.005	110	107	2.8	92	104	12.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	110	116	5.3	85	108	23.8	70 - 130	30
1,2,3-Trichloropropane	ND	0.005	104	108	3.8	87	101	14.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	115	119	3.4	87	111	24.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	107	106	0.9	88	102	14.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	114	118	3.4	78	94	18.6	70 - 130	30
1,2-Dibromoethane	ND	0.005	109	109	0.0	86	99	14.1	70 - 130	30
1,2-Dichlorobenzene	ND	0.005	106	106	0.0	87	101	14.9	70 - 130	30
1,2-Dichloroethane	ND	0.005	105	103	1.9	85	96	12.2	70 - 130	30

QA/QC Data

SDG I.D.: GBK51404

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloropropane	ND	0.005	104	103	1.0	86	98	13.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	108	107	0.9	88	102	14.7	70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	107	107	0.0	87	102	15.9	70 - 130	30	
1,3-Dichloropropane	ND	0.005	106	106	0.0	86	98	13.0	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	108	107	0.9	86	103	18.0	70 - 130	30	
2,2-Dichloropropane	ND	0.005	105	103	1.9	83	93	11.4	70 - 130	30	
2-Chlorotoluene	ND	0.005	107	107	0.0	87	100	13.9	70 - 130	30	
2-Hexanone	ND	0.025	98	101	3.0	80	91	12.9	70 - 130	30	
2-Isopropyltoluene	ND	0.005	106	106	0.0	88	101	13.8	70 - 130	30	
4-Chlorotoluene	ND	0.005	105	106	0.9	84	98	15.4	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	100	103	3.0	83	97	15.6	70 - 130	30	
Acetone	ND	0.01	94	97	3.1	63	73	14.7	70 - 130	30	m
Acrylonitrile	ND	0.005	109	112	2.7	89	103	14.6	70 - 130	30	
Benzene	ND	0.001	105	103	1.9	88	101	13.8	70 - 130	30	
Bromobenzene	ND	0.005	106	106	0.0	86	102	17.0	70 - 130	30	
Bromochloromethane	ND	0.005	105	105	0.0	86	99	14.1	70 - 130	30	
Bromodichloromethane	ND	0.005	109	109	0.0	85	98	14.2	70 - 130	30	
Bromoform	ND	0.005	117	118	0.9	78	95	19.7	70 - 130	30	
Bromomethane	ND	0.005	111	108	2.7	68	83	19.9	70 - 130	30	m
Carbon Disulfide	ND	0.005	110	107	2.8	77	83	7.5	70 - 130	30	
Carbon tetrachloride	ND	0.005	106	107	0.9	83	95	13.5	70 - 130	30	
Chlorobenzene	ND	0.005	105	104	1.0	87	99	12.9	70 - 130	30	
Chloroethane	ND	0.005	107	104	2.8	44	48	8.7	70 - 130	30	m
Chloroform	ND	0.005	104	103	1.0	86	96	11.0	70 - 130	30	
Chloromethane	ND	0.005	104	103	1.0	89	101	12.6	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	104	106	1.9	87	100	13.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	104	103	1.0	84	96	13.3	70 - 130	30	
Dibromochloromethane	ND	0.003	115	115	0.0	83	97	15.6	70 - 130	30	
Dibromomethane	ND	0.005	103	105	1.9	85	96	12.2	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	119	118	0.8	101	116	13.8	70 - 130	30	
Ethylbenzene	ND	0.001	108	105	2.8	88	101	13.8	70 - 130	30	
Hexachlorobutadiene	ND	0.005	109	108	0.9	91	107	16.2	70 - 130	30	
Isopropylbenzene	ND	0.001	107	106	0.9	87	100	13.9	70 - 130	30	
m&p-Xylene	ND	0.002	107	106	0.9	89	101	12.6	70 - 130	30	
Methyl ethyl ketone	ND	0.005	93	99	6.3	76	93	20.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	106	106	0.0	86	98	13.0	70 - 130	30	
Methylene chloride	ND	0.005	94	94	0.0	79	89	11.9	70 - 130	30	
Naphthalene	ND	0.005	117	124	5.8	92	113	20.5	70 - 130	30	
n-Butylbenzene	ND	0.001	111	110	0.9	90	106	16.3	70 - 130	30	
n-Propylbenzene	ND	0.001	105	104	1.0	84	98	15.4	70 - 130	30	
o-Xylene	ND	0.002	106	105	0.9	88	100	12.8	70 - 130	30	
p-Isopropyltoluene	ND	0.001	110	111	0.9	91	105	14.3	70 - 130	30	
sec-Butylbenzene	ND	0.001	111	110	0.9	91	105	14.3	70 - 130	30	
Styrene	ND	0.005	107	107	0.0	89	102	13.6	70 - 130	30	
tert-Butylbenzene	ND	0.001	105	104	1.0	87	99	12.9	70 - 130	30	
Tetrachloroethene	ND	0.005	106	104	1.9	89	101	12.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	105	109	3.7	86	100	15.1	70 - 130	30	
Toluene	ND	0.001	104	103	1.0	87	101	14.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	109	106	2.8	90	100	10.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	106	105	0.9	84	97	14.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	117	119	1.7	86	101	16.0	70 - 130	30	
Trichloroethene	ND	0.005	107	105	1.9	88	101	13.8	70 - 130	30	
Trichlorofluoromethane	ND	0.005	106	103	2.9	34	37	8.5	70 - 130	30	m

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorotrifluoroethane	ND	0.005	108	104	3.8	79	85	7.3	70 - 130	30	
Vinyl chloride	ND	0.005	111	109	1.8	93	108	14.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	100	100	0.0	100	100	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	101	102	1.0	100	103	3.0	70 - 130	30	
% Toluene-d8	99	%	99	100	1.0	100	100	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 331668 (mg/Kg), QC Sample No: BK51023 2X (BK51404, BK51405, BK51406, BK51407, BK51408, BK51409, BK51410, BK51411)

Pesticides - Solid

4,4' -DDD	ND	0.0017	80	81	1.2	84	69	19.6	40 - 140	30	
4,4' -DDE	ND	0.0017	80	81	1.2	79	69	13.5	40 - 140	30	
4,4' -DDT	ND	0.0017	81	85	4.8	82	85	3.6	40 - 140	30	
a-BHC	ND	0.001	81	81	0.0	72	67	7.2	40 - 140	30	
a-Chlordane	ND	0.0033	78	80	2.5	75	66	12.8	40 - 140	30	
Aldrin	ND	0.001	75	76	1.3	73	63	14.7	40 - 140	30	
b-BHC	ND	0.001	82	73	11.6	79	62	24.1	40 - 140	30	
Chlordane	ND	0.033	77	78	1.3	73	60	19.5	40 - 140	30	
d-BHC	ND	0.0033	70	64	9.0	68	55	21.1	40 - 140	30	
Dieldrin	ND	0.001	84	85	1.2	77	72	6.7	40 - 140	30	
Endosulfan I	ND	0.0033	80	82	2.5	80	68	16.2	40 - 140	30	
Endosulfan II	ND	0.0033	79	79	0.0	73	72	1.4	40 - 140	30	
Endosulfan sulfate	ND	0.0033	75	73	2.7	76	66	14.1	40 - 140	30	
Endrin	ND	0.0033	75	79	5.2	78	68	13.7	40 - 140	30	
Endrin aldehyde	ND	0.0033	69	72	4.3	68	59	14.2	40 - 140	30	
Endrin ketone	ND	0.0033	79	79	0.0	115	63	58.4	40 - 140	30	r
g-BHC	ND	0.001	83	82	1.2	71	66	7.3	40 - 140	30	
g-Chlordane	ND	0.0033	77	78	1.3	73	60	19.5	40 - 140	30	
Heptachlor	ND	0.0033	79	80	1.3	78	66	16.7	40 - 140	30	
Heptachlor epoxide	ND	0.0033	78	79	1.3	73	67	8.6	40 - 140	30	
Methoxychlor	ND	0.0033	81	81	0.0	108	76	34.8	40 - 140	30	r
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	74	%	77	79	2.6	81	92	12.7	30 - 150	30	
% TCMX	55	%	54	60	10.5	58	57	1.7	30 - 150	30	

QA/QC Batch 331760 (mg/Kg), QC Sample No: BK51370 2X (BK51404, BK51405, BK51406, BK51407, BK51408, BK51409, BK51410, BK51411)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	0.033	89	87	2.3	97	88	9.7	40 - 140	30
PCB-1221	ND	0.033							40 - 140	30
PCB-1232	ND	0.033							40 - 140	30
PCB-1242	ND	0.033							40 - 140	30
PCB-1248	ND	0.033							40 - 140	30
PCB-1254	ND	0.033							40 - 140	30
PCB-1260	ND	0.033	90	85	5.7	106	93	13.1	40 - 140	30
PCB-1262	ND	0.033							40 - 140	30
PCB-1268	ND	0.033							40 - 140	30
% DCBP (Surrogate Rec)	76	%	95	92	3.2	100	90	10.5	30 - 150	30
% TCMX (Surrogate Rec)	66	%	88	85	3.5	88	81	8.3	30 - 150	30

QA/QC Data

SDG I.D.: GBK51404

QA/QC Batch 331759 (mg/Kg), QC Sample No: BK51400 (BK51404, BK51405, BK51406, BK51407, BK51408, BK51409, BK51410, BK51411)

Semivolatiles - Solid

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4,5-Tetrachlorobenzene	ND	0.23	66	66	0.0	58	58	0.0	30 - 130	30	
1,2,4-Trichlorobenzene	ND	0.23	56	60	6.9	53	52	1.9	30 - 130	30	
1,2-Dichlorobenzene	ND	0.18	45	52	14.4	44	46	4.4	30 - 130	30	
1,2-Diphenylhydrazine	ND	0.23	67	71	5.8	56	56	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	0.23	44	48	8.7	41	42	2.4	30 - 130	30	
1,4-Dichlorobenzene	ND	0.23	46	51	10.3	43	45	4.5	30 - 130	30	
2,4,5-Trichlorophenol	ND	0.23	71	77	8.1	58	62	6.7	30 - 130	30	
2,4,6-Trichlorophenol	ND	0.13	71	73	2.8	58	60	3.4	30 - 130	30	
2,4-Dichlorophenol	ND	0.13	65	71	8.8	56	59	5.2	30 - 130	30	
2,4-Dimethylphenol	ND	0.23	59	66	11.2	54	56	3.6	30 - 130	30	
2,4-Dinitrophenol	ND	0.23	<10	<10	NC	52	51	1.9	30 - 130	30	l
2,4-Dinitrotoluene	ND	0.13	71	77	8.1	58	61	5.0	30 - 130	30	
2,6-Dinitrotoluene	ND	0.13	73	73	0.0	58	60	3.4	30 - 130	30	
2-Chloronaphthalene	ND	0.23	63	66	4.7	55	57	3.6	30 - 130	30	
2-Chlorophenol	ND	0.23	55	60	8.7	50	54	7.7	30 - 130	30	
2-Methylnaphthalene	ND	0.23	58	62	6.7	52	54	3.8	30 - 130	30	
2-Methylphenol (o-cresol)	ND	0.23	58	65	11.4	47	53	12.0	30 - 130	30	
2-Nitroaniline	ND	0.33	75	76	1.3	65	68	4.5	30 - 130	30	
2-Nitrophenol	ND	0.23	61	65	6.3	59	56	5.2	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	0.23	60	67	11.0	53	56	5.5	30 - 130	30	
3,3'-Dichlorobenzidine	ND	0.13	63	65	3.1	49	51	4.0	30 - 130	30	
3-Nitroaniline	ND	0.33	62	61	1.6	46	53	14.1	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	0.23	25	22	12.8	51	53	3.8	30 - 130	30	l
4-Bromophenyl phenyl ether	ND	0.23	72	78	8.0	59	60	1.7	30 - 130	30	
4-Chloro-3-methylphenol	ND	0.23	65	71	8.8	57	59	3.4	30 - 130	30	
4-Chloroaniline	ND	0.23	63	68	7.6	54	53	1.9	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	0.23	72	77	6.7	60	63	4.9	30 - 130	30	
4-Nitroaniline	ND	0.23	68	69	1.5	52	58	10.9	30 - 130	30	
4-Nitrophenol	ND	0.23	65	68	4.5	50	54	7.7	30 - 130	30	
Acenaphthene	ND	0.23	66	65	1.5	53	57	7.3	30 - 130	30	
Acenaphthylene	ND	0.13	63	65	3.1	52	54	3.8	30 - 130	30	
Acetophenone	ND	0.23	52	58	10.9	49	53	7.8	30 - 130	30	
Aniline	ND	0.33	44	53	18.6	44	44	0.0	30 - 130	30	
Anthracene	ND	0.23	72	71	1.4	55	57	3.6	30 - 130	30	
Benz(a)anthracene	ND	0.23	76	79	3.9	62	65	4.7	30 - 130	30	
Benzidine	ND	0.33	39	33	16.7	25	29	14.8	30 - 130	30	m
Benzo(a)pyrene	ND	0.13	69	74	7.0	58	60	3.4	30 - 130	30	
Benzo(b)fluoranthene	ND	0.16	76	76	0.0	60	62	3.3	30 - 130	30	
Benzo(ghi)perylene	ND	0.23	83	87	4.7	69	73	5.6	30 - 130	30	
Benzo(k)fluoranthene	ND	0.23	71	79	10.7	60	63	4.9	30 - 130	30	
Benzoic Acid	ND	0.33	<10	<10	NC	30	25	18.2	30 - 130	30	l,m
Benzyl butyl phthalate	ND	0.23	69	76	9.7	56	56	0.0	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	0.23	56	59	5.2	49	52	5.9	30 - 130	30	
Bis(2-chloroethyl)ether	ND	0.13	44	54	20.4	44	47	6.6	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	0.23	34	38	11.1	33	33	0.0	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	0.23	70	72	2.8	56	56	0.0	30 - 130	30	
Carbazole	ND	0.33	70	71	1.4	53	57	7.3	30 - 130	30	
Chrysene	ND	0.23	71	73	2.8	58	62	6.7	30 - 130	30	
Dibenz(a,h)anthracene	ND	0.13	79	82	3.7	65	68	4.5	30 - 130	30	

QA/QC Data

SDG I.D.: GBK51404

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Dibenzofuran	ND	0.23	68	70	2.9	55	58	5.3	30 - 130	30	
Diethyl phthalate	ND	0.23	71	77	8.1	60	60	0.0	30 - 130	30	
Dimethylphthalate	ND	0.23	68	72	5.7	59	60	1.7	30 - 130	30	
Di-n-butylphthalate	ND	0.23	78	82	5.0	58	61	5.0	30 - 130	30	
Di-n-octylphthalate	ND	0.23	72	76	5.4	57	60	5.1	30 - 130	30	
Fluoranthene	ND	0.23	77	80	3.8	58	62	6.7	30 - 130	30	
Fluorene	ND	0.23	69	74	7.0	56	59	5.2	30 - 130	30	
Hexachlorobenzene	ND	0.13	75	77	2.6	62	64	3.2	30 - 130	30	
Hexachlorobutadiene	ND	0.23	59	62	5.0	53	55	3.7	30 - 130	30	
Hexachlorocyclopentadiene	ND	0.23	66	67	1.5	60	59	1.7	30 - 130	30	
Hexachloroethane	ND	0.13	45	47	4.3	39	41	5.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	77	80	3.8	63	69	9.1	30 - 130	30	
Isophorone	ND	0.13	53	56	5.5	47	49	4.2	30 - 130	30	
Naphthalene	ND	0.23	55	58	5.3	51	53	3.8	30 - 130	30	
Nitrobenzene	ND	0.13	53	57	7.3	51	54	5.7	30 - 130	30	
N-Nitrosodimethylamine	ND	0.23	58	72	21.5	57	64	11.6	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	0.13	54	61	12.2	52	49	5.9	30 - 130	30	
N-Nitrosodiphenylamine	ND	0.13	77	81	5.1	65	65	0.0	30 - 130	30	
Pentachloronitrobenzene	ND	0.23	77	75	2.6	67	66	1.5	30 - 130	30	
Pentachlorophenol	ND	0.23	57	56	1.8	57	56	1.8	30 - 130	30	
Phenanthrene	ND	0.13	68	69	1.5	56	58	3.5	30 - 130	30	
Phenol	ND	0.23	57	66	14.6	49	53	7.8	30 - 130	30	
Pyrene	ND	0.23	82	81	1.2	60	65	8.0	30 - 130	30	
Pyridine	ND	0.23	35	50	35.3	36	39	8.0	30 - 130	30	r
% 2,4,6-Tribromophenol	56	%	68	77	12.4	57	59	3.4	30 - 130	30	
% 2-Fluorobiphenyl	59	%	64	64	0.0	54	55	1.8	30 - 130	30	
% 2-Fluorophenol	47	%	54	63	15.4	49	48	2.1	30 - 130	30	
% Nitrobenzene-d5	52	%	54	57	5.4	50	52	3.9	30 - 130	30	
% Phenol-d5	52	%	56	65	14.9	51	54	5.7	30 - 130	30	
% Terphenyl-d14	75	%	80	79	1.3	56	59	5.2	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 332159 (mg/Kg), QC Sample No: BK51405 (BK51404 (50X) , BK51405 (1X, 50X))

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	0.005	106	107	0.9	99	99	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	102	102	0.0	96	97	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	102	100	2.0	99	99	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	100	98	2.0	99	97	2.0	70 - 130	30	
1,1-Dichloroethane	ND	0.005	99	97	2.0	95	95	0.0	70 - 130	30	
1,1-Dichloroethene	ND	0.005	101	102	1.0	85	85	0.0	70 - 130	30	
1,1-Dichloropropene	ND	0.005	104	106	1.9	103	103	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	100	108	7.7	99	106	6.8	70 - 130	30	
1,2,3-Trichloropropane	ND	0.005	101	98	3.0	100	93	7.3	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	104	112	7.4	103	108	4.7	70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.001	101	103	2.0	100	101	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	107	103	3.8	91	93	2.2	70 - 130	30	
1,2-Dibromoethane	ND	0.005	105	102	2.9	100	98	2.0	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	101	102	1.0	100	101	1.0	70 - 130	30	
1,2-Dichloroethane	ND	0.005	105	102	2.9	100	98	2.0	70 - 130	30	
1,2-Dichloropropane	ND	0.005	100	99	1.0	100	99	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	101	104	2.9	101	100	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBK51404

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,3-Dichlorobenzene	ND	0.005	100	103	3.0	100	100	0.0	70 - 130	30	
1,3-Dichloropropane	ND	0.005	103	100	3.0	98	98	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	101	104	2.9	101	101	0.0	70 - 130	30	
2,2-Dichloropropane	ND	0.005	102	101	1.0	92	95	3.2	70 - 130	30	
2-Chlorotoluene	ND	0.005	101	102	1.0	100	99	1.0	70 - 130	30	
2-Hexanone	ND	0.025	94	87	7.7	90	90	0.0	70 - 130	30	
2-Isopropyltoluene	ND	0.005	100	103	3.0	100	101	1.0	70 - 130	30	
4-Chlorotoluene	ND	0.005	98	100	2.0	98	98	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	98	92	6.3	96	93	3.2	70 - 130	30	
Acetone	ND	0.01	121	109	10.4	73	77	5.3	70 - 130	30	
Acrylonitrile	ND	0.005	102	95	7.1	100	100	0.0	70 - 130	30	
Benzene	ND	0.001	101	101	0.0	101	101	0.0	70 - 130	30	
Bromobenzene	ND	0.005	102	102	0.0	100	100	0.0	70 - 130	30	
Bromochloromethane	ND	0.005	101	99	2.0	97	98	1.0	70 - 130	30	
Bromodichloromethane	ND	0.005	107	106	0.9	99	99	0.0	70 - 130	30	
Bromoform	ND	0.005	110	108	1.8	94	95	1.1	70 - 130	30	
Bromomethane	ND	0.005	110	110	0.0	74	84	12.7	70 - 130	30	
Carbon Disulfide	ND	0.005	103	101	2.0	83	85	2.4	70 - 130	30	
Carbon tetrachloride	ND	0.005	103	103	0.0	95	98	3.1	70 - 130	30	
Chlorobenzene	ND	0.005	101	101	0.0	99	99	0.0	70 - 130	30	
Chloroethane	ND	0.005	104	103	1.0	50	49	2.0	70 - 130	30	m
Chloroform	ND	0.005	102	101	1.0	98	99	1.0	70 - 130	30	
Chloromethane	ND	0.005	93	95	2.1	93	94	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	100	99	1.0	100	98	2.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	101	99	2.0	97	95	2.1	70 - 130	30	
Dibromochloromethane	ND	0.003	111	109	1.8	98	99	1.0	70 - 130	30	
Dibromomethane	ND	0.005	101	100	1.0	98	97	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	104	106	1.9	101	104	2.9	70 - 130	30	
Ethylbenzene	ND	0.001	102	104	1.9	101	101	0.0	70 - 130	30	
Hexachlorobutadiene	ND	0.005	98	107	8.8	104	107	2.8	70 - 130	30	
Isopropylbenzene	ND	0.001	99	101	2.0	99	99	0.0	70 - 130	30	
m&p-Xylene	ND	0.002	101	103	2.0	101	100	1.0	70 - 130	30	
Methyl ethyl ketone	ND	0.005	91	84	8.0	90	89	1.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	106	102	3.8	97	97	0.0	70 - 130	30	
Methylene chloride	ND	0.005	91	88	3.4	86	88	2.3	70 - 130	30	
Naphthalene	ND	0.005	107	111	3.7	91	99	8.4	70 - 130	30	
n-Butylbenzene	ND	0.001	97	106	8.9	103	104	1.0	70 - 130	30	
n-Propylbenzene	ND	0.001	96	100	4.1	97	97	0.0	70 - 130	30	
o-Xylene	ND	0.002	102	101	1.0	100	100	0.0	70 - 130	30	
p-Isopropyltoluene	ND	0.001	101	107	5.8	97	97	0.0	70 - 130	30	
sec-Butylbenzene	ND	0.001	101	106	4.8	103	105	1.9	70 - 130	30	
Styrene	ND	0.005	104	103	1.0	102	101	1.0	70 - 130	30	
tert-Butylbenzene	ND	0.001	100	102	2.0	98	100	2.0	70 - 130	30	
Tetrachloroethene	ND	0.005	99	102	3.0	102	102	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	100	93	7.3	96	98	2.1	70 - 130	30	
Toluene	ND	0.001	101	101	0.0	101	99	2.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	106	104	1.9	99	101	2.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	104	101	2.9	100	96	4.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	109	105	3.7	97	100	3.0	70 - 130	30	
Trichloroethene	ND	0.005	102	103	1.0	102	101	1.0	70 - 130	30	
Trichlorofluoromethane	ND	0.005	102	104	1.9	38	39	2.6	70 - 130	30	m
Trichlorotrifluoroethane	ND	0.005	99	103	4.0	87	88	1.1	70 - 130	30	
Vinyl chloride	ND	0.005	102	99	3.0	101	101	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBK51404

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	99	%	101	100	1.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	99	%	102	99	3.0	99	101	2.0	70 - 130	30	
% Toluene-d8	98	%	100	99	1.0	100	99	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 331970 (mg/Kg), QC Sample No: BK51765 (BK51518, BK51519 (50X))

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	0.005	110	112	1.8	106	108	1.9	70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	107	107	0.0	110	110	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	109	109	0.0	103	103	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	105	104	1.0	98	100	2.0	70 - 130	30	
1,1-Dichloroethane	ND	0.005	105	104	1.0	103	105	1.9	70 - 130	30	
1,1-Dichloroethene	ND	0.005	109	107	1.9	110	108	1.8	70 - 130	30	
1,1-Dichloropropene	ND	0.005	112	112	0.0	106	107	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	105	111	5.6	78	80	2.5	70 - 130	30	
1,2,3-Trichloropropane	ND	0.005	109	108	0.9	102	101	1.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	109	113	3.6	79	80	1.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.001	108	108	0.0	102	102	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	112	113	0.9	103	102	1.0	70 - 130	30	
1,2-Dibromoethane	ND	0.005	110	110	0.0	99	100	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	106	106	0.0	91	93	2.2	70 - 130	30	
1,2-Dichloroethane	ND	0.005	106	107	0.9	100	102	2.0	70 - 130	30	
1,2-Dichloropropane	ND	0.005	108	107	0.9	100	103	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	108	109	0.9	106	107	0.9	70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	107	107	0.0	91	93	2.2	70 - 130	30	
1,3-Dichloropropane	ND	0.005	107	108	0.9	99	101	2.0	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	106	107	0.9	89	91	2.2	70 - 130	30	
2,2-Dichloropropane	ND	0.005	105	105	0.0	107	107	0.0	70 - 130	30	
2-Chlorotoluene	ND	0.005	107	107	0.0	101	102	1.0	70 - 130	30	
2-Hexanone	ND	0.025	99	99	0.0	91	93	2.2	70 - 130	30	
2-Isopropyltoluene	ND	0.005	108	109	0.9	107	107	0.0	70 - 130	30	
4-Chlorotoluene	ND	0.005	104	104	0.0	97	97	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	102	103	1.0	98	100	2.0	70 - 130	30	
Acetone	ND	0.01	94	95	1.1	149	137	8.4	70 - 130	30	m
Acrylonitrile	ND	0.005	108	108	0.0	99	100	1.0	70 - 130	30	
Benzene	ND	0.001	108	108	0.0	102	103	1.0	70 - 130	30	
Bromobenzene	ND	0.005	109	109	0.0	97	98	1.0	70 - 130	30	
Bromochloromethane	ND	0.005	109	107	1.9	101	102	1.0	70 - 130	30	
Bromodichloromethane	ND	0.005	112	113	0.9	103	105	1.9	70 - 130	30	
Bromoform	ND	0.005	114	117	2.6	100	103	3.0	70 - 130	30	
Bromomethane	ND	0.005	116	112	3.5	122	119	2.5	70 - 130	30	
Carbon Disulfide	ND	0.005	111	109	1.8	105	108	2.8	70 - 130	30	
Carbon tetrachloride	ND	0.005	109	109	0.0	110	115	4.4	70 - 130	30	
Chlorobenzene	ND	0.005	108	108	0.0	97	98	1.0	70 - 130	30	
Chloroethane	ND	0.005	110	107	2.8	109	111	1.8	70 - 130	30	
Chloroform	ND	0.005	106	105	0.9	104	105	1.0	70 - 130	30	
Chloromethane	ND	0.005	102	101	1.0	102	103	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	106	107	0.9	101	102	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	106	106	0.0	97	99	2.0	70 - 130	30	
Dibromochloromethane	ND	0.003	115	118	2.6	103	105	1.9	70 - 130	30	
Dibromomethane	ND	0.005	107	107	0.0	100	100	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBK51404

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dichlorodifluoromethane	ND	0.005	116	114	1.7	124	126	1.6	70 - 130	30
Ethylbenzene	ND	0.001	107	109	1.9	101	103	2.0	70 - 130	30
Hexachlorobutadiene	ND	0.005	106	108	1.9	92	94	2.2	70 - 130	30
Isopropylbenzene	ND	0.001	108	107	0.9	109	109	0.0	70 - 130	30
m&p-Xylene	ND	0.002	108	108	0.0	101	103	2.0	70 - 130	30
Methyl ethyl ketone	ND	0.005	94	96	2.1	87	89	2.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	109	109	0.0	100	102	2.0	70 - 130	30
Methylene chloride	ND	0.005	96	96	0.0	103	102	1.0	70 - 130	30
Naphthalene	ND	0.005	114	119	4.3	87	88	1.1	70 - 130	30
n-Butylbenzene	ND	0.001	108	109	0.9	98	99	1.0	70 - 130	30
n-Propylbenzene	ND	0.001	105	104	1.0	105	104	1.0	70 - 130	30
o-Xylene	ND	0.002	108	109	0.9	103	104	1.0	70 - 130	30
p-Isopropyltoluene	ND	0.001	111	111	0.0	104	105	1.0	70 - 130	30
sec-Butylbenzene	ND	0.001	111	111	0.0	106	107	0.9	70 - 130	30
Styrene	ND	0.005	109	110	0.9	94	97	3.1	70 - 130	30
tert-Butylbenzene	ND	0.001	107	108	0.9	109	109	0.0	70 - 130	30
Tetrachloroethene	ND	0.005	107	107	0.0	85	86	1.2	70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	107	107	0.0	99	100	1.0	70 - 130	30
Toluene	ND	0.001	106	106	0.0	100	103	3.0	70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	110	111	0.9	103	106	2.9	70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	108	108	0.0	96	98	2.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	114	114	0.0	97	98	1.0	70 - 130	30
Trichloroethene	ND	0.005	110	109	0.9	102	103	1.0	70 - 130	30
Trichlorofluoromethane	ND	0.005	108	106	1.9	115	117	1.7	70 - 130	30
Trichlorotrifluoroethane	ND	0.005	111	108	2.7	114	116	1.7	70 - 130	30
Vinyl chloride	ND	0.005	112	109	2.7	108	111	2.7	70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	99	100	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	98	%	100	99	1.0	98	99	1.0	70 - 130	30
% Dibromofluoromethane	95	%	101	100	1.0	103	102	1.0	70 - 130	30
% Toluene-d8	99	%	100	100	0.0	99	99	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
January 20, 2016

Sample Criteria Exceedences Report

GBK51404 - HYDROBRO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK51404	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1600	290	500	500	ug/Kg
BK51404	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	3200	290	1000	1000	ug/Kg
BK51404	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	2700	290	1000	1000	ug/Kg
BK51404	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2500	290	1000	1000	ug/Kg
BK51404	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	410	290	330	330	ug/Kg
BK51404	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	2600	290	1000	1000	ug/Kg
BK51404	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	3500	290	1000	1000	ug/Kg
BK51404	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	410	290	330	330	ug/Kg
BK51404	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3500	290	1000	1000	ug/Kg
BK51404	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2500	290	1000	1000	ug/Kg
BK51404	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1600	290	500	500	ug/Kg
BK51404	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2700	290	1000	1000	ug/Kg
BK51404	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3200	290	1000	1000	ug/Kg
BK51404	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	2600	290	800	800	ug/Kg
BK51404	$PESTSM_NY	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Residential	47	4.2	39	39	ug/Kg
BK51404	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	200	25	3.3	3.3	ug/Kg
BK51404	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	33	2.5	3.3	3.3	ug/Kg
BK51404	$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	22	2.5	3.3	3.3	ug/Kg
BK51404	$PESTSM_NY	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	47	4.2	5	5	ug/Kg
BK51404	AG-SM	Silver	NY / 375-6.8 Metals / Unrestricted Use Soil	2.22	0.39	2	2	mg/Kg
BK51404	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	24.3	0.8	16	16	mg/Kg
BK51404	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	24.3	0.8	13	13	mg/Kg
BK51404	BA-SM	Barium	NY / 375-6.8 Metals / Residential	2270	3.9	350	350	mg/Kg
BK51404	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	2270	3.9	350	350	mg/Kg
BK51404	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	6.01	0.39	2.5	2.5	mg/Kg
BK51404	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	6.01	0.39	2.5	2.5	mg/Kg
BK51404	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	43.2	0.39	30		mg/Kg
BK51404	CU-SM	Copper	NY / 375-6.8 Metals / Residential	438	3.9	270	270	mg/kg
BK51404	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	438	3.9	50	50	mg/kg
BK51404	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	4.73	0.32	0.81	0.81	mg/Kg
BK51404	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	4.73	0.32	0.18	0.18	mg/Kg
BK51404	PB-SM	Lead	NY / 375-6.8 Metals / Residential	3620	39	400	400	mg/Kg
BK51404	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	3620	39	63	63	mg/Kg
BK51404	ZN-SM	Zinc	NY / 375-6.8 Metals / Residential	3890	39	2200	2200	mg/Kg
BK51404	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	3890	39	109	109	mg/Kg
BK51405	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Residential	4500	310	1000	1000	ug/Kg
BK51405	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Residential	3300	310	1000	1000	ug/Kg
BK51405	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Residential	1700	310	500	500	ug/Kg
BK51405	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	3300	310	1000	1000	ug/Kg
BK51405	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Residential	3500	310	1000	1000	ug/Kg
BK51405	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Residential	360	310	330	330	ug/Kg

Sample Criteria Exceedences Report

GBK51404 - HYDROBRO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK51405	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Residential	3900	310	1000	1000	ug/Kg
BK51405	$8270-SMR	Indeno(1,2,3-cd)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	1700	310	500	500	ug/Kg
BK51405	$8270-SMR	Dibenz(a,h)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	360	310	330	330	ug/Kg
BK51405	$8270-SMR	Chrysene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	4500	310	1000	1000	ug/Kg
BK51405	$8270-SMR	Benzo(k)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3500	310	800	800	ug/Kg
BK51405	$8270-SMR	Benzo(b)fluoranthene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	310	1000	1000	ug/Kg
BK51405	$8270-SMR	Benz(a)anthracene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3900	310	1000	1000	ug/Kg
BK51405	$8270-SMR	Benzo(a)pyrene	NY / 375-6.8 Semivolatiles / Unrestricted Use Soil	3300	310	1000	1000	ug/Kg
BK51405	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	38	2.6	3.3	3.3	ug/Kg
BK51405	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	230	26	3.3	3.3	ug/Kg
BK51405	$PESTSM_NY	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	27	4.3	5	5	ug/Kg
BK51405	$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	18	2.6	3.3	3.3	ug/Kg
BK51405	AS-SM	Arsenic	NY / 375-6.8 Metals / Residential	23.0	0.9	16	16	mg/Kg
BK51405	AS-SM	Arsenic	NY / 375-6.8 Metals / Unrestricted Use Soil	23.0	0.9	13	13	mg/Kg
BK51405	BA-SM	Barium	NY / 375-6.8 Metals / Residential	2480	4.5	350	350	mg/Kg
BK51405	BA-SM	Barium	NY / 375-6.8 Metals / Unrestricted Use Soil	2480	4.5	350	350	mg/Kg
BK51405	CD-SM	Cadmium	NY / 375-6.8 Metals / Residential	6.36	0.45	2.5	2.5	mg/Kg
BK51405	CD-SM	Cadmium	NY / 375-6.8 Metals / Unrestricted Use Soil	6.36	0.45	2.5	2.5	mg/Kg
BK51405	CR-SM	Chromium	NY / 375-6.8 Metals / Unrestricted Use Soil	44.7	0.45	30		mg/Kg
BK51405	CU-SM	Copper	NY / 375-6.8 Metals / Residential	513	4.5	270	270	mg/kg
BK51405	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	513	4.5	50	50	mg/kg
BK51405	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	3.64	0.33	0.81	0.81	mg/Kg
BK51405	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	3.64	0.33	0.18	0.18	mg/Kg
BK51405	NI-SM	Nickel	NY / 375-6.8 Metals / Unrestricted Use Soil	36.5	0.45	30	30	mg/Kg
BK51405	PB-SM	Lead	NY / 375-6.8 Metals / Residential	4160	45	400	400	mg/Kg
BK51405	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	4160	45	63	63	mg/Kg
BK51405	ZN-SM	Zinc	NY / 375-6.8 Metals / Residential	2550	45	2200	2200	mg/Kg
BK51405	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	2550	45	109	109	mg/Kg
BK51406	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.6	2.1	3.3	3.3	ug/Kg
BK51406	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	19	2.1	3.3	3.3	ug/Kg
BK51406	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	118	0.32	63	63	mg/Kg
BK51407	$PESTSM_NY	Dieldrin	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	8.5	3.9	5	5	ug/Kg
BK51407	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	72	2.3	3.3	3.3	ug/Kg
BK51407	$PESTSM_NY	4,4' -DDE	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	23	2.3	3.3	3.3	ug/Kg
BK51407	$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	26	2.3	3.3	3.3	ug/Kg
BK51407	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	70.1	0.37	50	50	mg/kg
BK51407	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.76	0.03	0.18	0.18	mg/Kg
BK51407	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	273	3.7	63	63	mg/Kg
BK51407	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	239	3.7	109	109	mg/Kg
BK51408	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.9	2.1	3.3	3.3	ug/Kg

Sample Criteria Exceedences Report

GBK51404 - HYDROBRO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK51409	$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	5.7	2.5	3.3	3.3	ug/Kg
BK51409	CU-SM	Copper	NY / 375-6.8 Metals / Unrestricted Use Soil	70.7	0.42	50	50	mg/kg
BK51409	HG-SM	Mercury	NY / 375-6.8 Metals / Residential	1.08	0.03	0.81	0.81	mg/Kg
BK51409	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	1.08	0.03	0.18	0.18	mg/Kg
BK51409	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	382	4.2	63	63	mg/Kg
BK51409	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	355	4.2	109	109	mg/Kg
BK51410	$PESTSM_NY	4,4' -DDD	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	28	2.1	3.3	3.3	ug/Kg
BK51410	$PESTSM_NY	4,4' -DDT	NY / 375-6.8 PCBs/Pesticides / Unrestricted Use Soil	6.8	2.1	3.3	3.3	ug/Kg
BK51411	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.54	0.03	0.18	0.18	mg/Kg
BK51411	PB-SM	Lead	NY / 375-6.8 Metals / Unrestricted Use Soil	67.0	0.40	63	63	mg/Kg
BK51411	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	241	4.0	109	109	mg/Kg
BK51519	$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Residential	ND	250	210	210	ug/Kg
BK51519	$8260MER	Vinyl chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BK51519	$8260MER	1,2-Dichloroethane	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	20	20	ug/Kg
BK51519	$8260MER	Acetone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	5000	50	50	ug/Kg
BK51519	$8260MER	Benzene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	60	60	ug/Kg
BK51519	$8260MER	Methyl Ethyl Ketone	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	3000	120	120	ug/Kg
BK51519	$8260MER	Methylene chloride	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	500	50	50	ug/Kg
BK51519	$8260MER	trans-1,2-Dichloroethene	NY / 375-6.8 Volatiles / Unrestricted Use Soil	ND	250	190	190	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

January 20, 2016

SDG I.D.: GBK51404

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

Temp 4 °C Pg 1 of 1

NY/NJ CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: Andrew@hydrotechenvironmental.com

Customer: Hydro Tech
Address: 15 Ocean Avenue - 2nd Floor
Brooklyn, NY 11225

Project: 150299
Report to: AJ Infante
Invoice to: Muslima Ward (MWard@hydrotechenvironmental.com)

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/11/16

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	SVOCs	Pesticides/PCBs	TAL Metals								Soil VOA Vials [1] methanol [3] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
51404	SP-1 (0-2')	S	1/11/16	09:50	x	x	x	x								3	1								
51405	SP-1 (2-4')	S	1/11/16	09:55	x	x	x	x								3	1								
51406	SP-2 (0-2')	S	1/11/16	10:15	x	x	x	x								3	1								
51407	SP-2 (2-4')	S	1/11/16	10:20	x	x	x	x								3	1								
51408	SP-3 (0-2')	S	1/11/16	10:50	x	x	x	x								3	2								
51409	SP-3 (6-8')	S	1/11/16	10:55	x	x	x	x								3	2								
51410	SP-4 (0-2')	S	1/11/16	11:30	x	x	x	x								3	2								
51411	SP-4 (6-8')	S	1/11/16	11:35	x	x	x	x								3	2								
* 51518	TB LOW																								
* 51519	TB HIGH																								

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1-12-16	9:40
[signature]	[signature]	1-12-16	15:18

Comments, Special Requirements or Regulations:

*RCVD SOIL TB. RCVD W/O CUSTODY SEAL (CP)

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[ ] TAGM 4046 GW
[ ] TAGM 4046 SOIL
[X] NY375 Unrestricted Use Soil
[X] NY375 Residential Soil
[ ] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[X] Phoenix Std Report
[X] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[ ] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

I. Groundwater Analytical Report

PHOENIX
Environmental Laboratories, Inc.

Friday, January 22, 2016

Attn: Mr. AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Project ID: 150299
Sample ID#s: BK52631 - BK52636

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

January 22, 2016

SDG I.D.: GBK52631

8260 Volatile Organics:
1,2-Dibromoethane, 1,2,3 Trichloropropane, and 1,2-Dibromo-3-chloropropane do not meet NY TOGS GA criteria, these compounds are analyzed by GC/ECD method 504 or 8011 to achieve this criteria.

SIM Analysis:
The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

8081 Pesticides:
Toxaphene is reported to the lowest possible reporting level. The NY TOGS criteria for this compound can not be achieved.
Sample BK52631 was received past hold time for Chromium, Hexavalent (SM3500CRB/SW7196).
Sample BK52632 was received past hold time for Chromium, Hexavalent (SM3500CRB/SW7196).
Sample BK52633 was received past hold time for Chromium, Hexavalent (SM3500CRB/SW7196).
Sample BK52634 was received past hold time for Chromium, Hexavalent (SM3500CRB/SW7196).
Sample BK52635 was received past hold time for Chromium, Hexavalent (SM3500CRB/SW7196).

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 22, 2016

FOR: Attn: Mr. AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/12/16	13:10
Location Code:	HYDROBRO	Received by:	LB	01/13/16	16:42
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150299				

Laboratory Data

SDG ID: GBK52631
Phoenix ID: BK52631

Project ID: 150299
Client ID: MW-1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Aluminum	0.126	0.010		mg/L	1	01/14/16	EK	SW6010C	
Aluminum (Dissolved)	< 0.011	0.011		mg/L	1	01/15/16	LK	SW6010C	
Antimony (Dissolved)	0.008	0.003		mg/L	1	01/15/16	LK	SW6010C	
Antimony	0.010	0.003		mg/L	1	01/14/16	EK	SW6010C	
Arsenic	0.006	0.004		mg/L	1	01/14/16	EK	SW6010C	
Arsenic (Dissolved)	< 0.004	0.004		mg/L	1	01/14/16	LK	SW6010C	
Barium	0.066	0.002		mg/L	1	01/14/16	EK	SW6010C	
Barium (Dissolved)	0.155	0.002		mg/L	1	01/14/16	LK	SW6010C	
Beryllium	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C	
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C	
Calcium	237	0.10		mg/L	10	01/15/16	LK	SW6010C	
Cadmium	0.001	0.001		mg/L	1	01/14/16	EK	SW6010C	
Calcium (Dissolved)	216	0.11		mg/L	10	01/14/16	EK	SW6010C	B
Cadmium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C	
Chromium	0.002	0.001		mg/L	1	01/14/16	EK	SW6010C	
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C	
Cobalt	< 0.002	0.002		mg/L	1	01/14/16	EK	SW6010C	
Copper	0.029	0.005		mg/L	1	01/14/16	EK	SW6010C	
Cobalt (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C	
Copper (Dissolved)	< 0.005	0.005		mg/L	1	01/14/16	LK	SW6010C	
Iron (Dissolved)	0.058	0.011		mg/L	1	01/14/16	LK	SW6010C	
Iron	0.223	0.010		mg/L	1	01/14/16	EK	SW6010C	
Lead (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C	
Lead	0.027	0.002		mg/L	1	01/14/16	EK	SW6010C	
Magnesium (Dissolved)	20.2	0.01		mg/L	1	01/14/16	LK	SW6010C	
Manganese (Dissolved)	0.321	0.001		mg/L	1	01/18/16	LK	SW6010C	
Magnesium	17.9	0.01		mg/L	1	01/14/16	EK	SW6010C	
Manganese	0.014	0.001		mg/L	1	01/18/16	LK	SW6010C	

Project ID: 150299
Client ID: MW-1

Phoenix I.D.: BK52631

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	01/18/16	RS	SW7470A
Mercury	< 0.0002	0.0002		mg/L	1	01/15/16	RS	SW7470A
Nickel (Dissolved)	0.006	0.001		mg/L	1	01/15/16	LK	SW6010C
Nickel	0.008	0.001		mg/L	1	01/14/16	EK	SW6010C
Potassium (Dissolved)	22.4	0.1		mg/L	1	01/14/16	LK	SW6010C
Potassium	19.7	0.1		mg/L	1	01/14/16	EK	SW6010C
Selenium (Dissolved)	< 0.002	0.002		mg/L	1	01/15/16	RS	E200.9/SM3113B-10
Selenium	< 0.010	0.010		mg/L	1	01/14/16	EK	SW6010C
Silver	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C
Silver (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Sodium (Dissolved)	52.5	0.11		mg/L	1	01/14/16	LK	SW6010C
Sodium	42.3	0.1		mg/L	1	01/14/16	EK	SW6010C
Thallium (Dissolved)	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SW7010
Thallium	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SM3113B/SW7010-1
Trivalent Chromium	0.002	0.001		mg/L	1			SW6010C
Vanadium (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Vanadium	0.002	0.002		mg/L	1	01/14/16	EK	SW6010C
Zinc (Dissolved)	0.994	0.002		mg/L	1	01/14/16	LK	SW6010C
Zinc	2.69	0.020		mg/L	10	01/15/16	LK	SW6010C
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	01/13/16 17:30	O	SM3500CRB/SW7196
Filtration	Completed					01/15/16	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					01/17/16	W/W	SW7470A
Mercury Digestion	Completed					01/15/16	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					01/13/16	L	SW3510C
Extraction for Pest (2 Liter)	Completed					01/13/16	L	SW3510C
Semi-Volatile Extraction	Completed					01/13/16	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					01/15/16	AG	SW3005A
Total Metals Digestion	Completed					01/15/16	AG	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
QA/QC Surrogates								
% DCBP	64			%	1	01/14/16	AW	30 - 150 %
% TCMX	62			%	1	01/14/16	AW	30 - 150 %
Pesticides								
4,4' -DDD	ND	0.005		ug/L	1	01/15/16	CE	SW8081B
4,4' -DDE	ND	0.005		ug/L	1	01/15/16	CE	SW8081B
4,4' -DDT	ND	0.005		ug/L	1	01/15/16	CE	SW8081B
a-BHC	ND	0.005		ug/L	1	01/15/16	CE	SW8081B
Alachlor	ND	0.075		ug/L	1	01/15/16	CE	SW8081B 1
Aldrin	ND	0.002		ug/L	1	01/15/16	CE	SW8081B

Project ID: 150299
Client ID: MW-1

Phoenix I.D.: BK52631

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
b-BHC	ND	0.005		ug/L	1	01/15/16	CE	SW8081B	
Chlordane	ND	0.050		ug/L	1	01/15/16	CE	SW8081B	
d-BHC	ND	0.025		ug/L	1	01/15/16	CE	SW8081B	
Dieldrin	ND	0.002		ug/L	1	01/15/16	CE	SW8081B	
Endosulfan I	ND	0.005		ug/L	1	01/15/16	CE	SW8081B	
Endosulfan II	ND	0.050		ug/L	1	01/15/16	CE	SW8081B	
Endosulfan Sulfate	ND	0.050		ug/L	1	01/15/16	CE	SW8081B	
Endrin	ND	0.005		ug/L	1	01/15/16	CE	SW8081B	
Endrin Aldehyde	ND	0.050		ug/L	1	01/15/16	CE	SW8081B	
Endrin ketone	ND	0.050		ug/L	1	01/15/16	CE	SW8081B	
g-BHC (Lindane)	ND	0.025		ug/L	1	01/15/16	CE	SW8081B	
Heptachlor	ND	0.005		ug/L	1	01/15/16	CE	SW8081B	
Heptachlor epoxide	ND	0.005		ug/L	1	01/15/16	CE	SW8081B	
Methoxychlor	ND	0.10		ug/L	1	01/15/16	CE	SW8081B	
Toxaphene	ND	1.0		ug/L	1	01/15/16	CE	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	63			%	1	01/15/16	CE	30 - 150 %	
%TCMX (Surrogate Rec)	57			%	1	01/15/16	CE	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1,1-Trichloroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1,2-Trichloroethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1-Dichloroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1-Dichloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1-Dichloropropene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2,3-Trichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2,3-Trichloropropane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2,4-Trichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2,4-Trimethylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dibromoethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dichloroethane	ND	0.60		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dichloropropane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,3,5-Trimethylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,3-Dichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,3-Dichloropropane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,4-Dichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
2,2-Dichloropropane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
2-Chlorotoluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
2-Hexanone	ND	10		ug/L	2	01/16/16	M/P	SW8260C	
2-Isopropyltoluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	1
4-Chlorotoluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
4-Methyl-2-pentanone	ND	10		ug/L	2	01/16/16	M/P	SW8260C	
Acetone	ND	50		ug/L	2	01/16/16	M/P	SW8260C	
Acrylonitrile	ND	5.0		ug/L	2	01/16/16	M/P	SW8260C	
Benzene	ND	0.70		ug/L	2	01/16/16	M/P	SW8260C	
Bromobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	

Project ID: 150299
Client ID: MW-1

Phoenix I.D.: BK52631

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bromochloromethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Bromodichloromethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
Bromoform	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Bromomethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Carbon Disulfide	ND	10		ug/L	2	01/16/16	M/P	SW8260C	
Carbon tetrachloride	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Chlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Chloroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Chloroform	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Chloromethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
cis-1,2-Dichloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
cis-1,3-Dichloropropene	ND	0.40		ug/L	2	01/16/16	M/P	SW8260C	
Dibromochloromethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
Dibromomethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Dichlorodifluoromethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Ethylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Hexachlorobutadiene	ND	0.40		ug/L	2	01/16/16	M/P	SW8260C	
Isopropylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
m&p-Xylene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Methyl ethyl ketone	ND	10		ug/L	2	01/16/16	M/P	SW8260C	
Methyl t-butyl ether (MTBE)	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Methylene chloride	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Naphthalene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
n-Butylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
n-Propylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
o-Xylene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
p-Isopropyltoluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
sec-Butylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Styrene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
tert-Butylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Tetrachloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Tetrahydrofuran (THF)	ND	5.0		ug/L	2	01/16/16	M/P	SW8260C	1
Toluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Total Xylenes	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
trans-1,2-Dichloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
trans-1,3-Dichloropropene	ND	0.40		ug/L	2	01/16/16	M/P	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0		ug/L	2	01/16/16	M/P	SW8260C	
Trichloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Trichlorofluoromethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Trichlorotrifluoroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Vinyl chloride	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	104			%	2	01/16/16	M/P	70 - 130 %	
% Bromofluorobenzene	99			%	2	01/16/16	M/P	70 - 130 %	
% Dibromofluoromethane	100			%	2	01/16/16	M/P	70 - 130 %	
% Toluene-d8	102			%	2	01/16/16	M/P	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D

Project ID: 150299
Client ID: MW-1

Phoenix I.D.: BK52631

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dimethylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dinitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Chloronaphthalene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Chlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10		ug/L	1	01/18/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
3-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Chloroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
Acetophenone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Aniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Benzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Benzoic acid	ND	50		ug/L	1	01/18/16	DD	SW8270D
Benzyl butyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Carbazole	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Dibenzofuran	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Diethyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Dimethylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Di-n-butylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Di-n-octylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Isophorone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodimethylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodiphenylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Phenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	95			%	1	01/18/16	DD	15 - 110 %
% 2-Fluorobiphenyl	61			%	1	01/18/16	DD	30 - 130 %
% 2-Fluorophenol	24			%	1	01/18/16	DD	15 - 110 %

Project ID: 150299
Client ID: MW-1

Phoenix I.D.: BK52631

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	39			%	1	01/18/16	DD	30 - 130 %
% Phenol-d5	40			%	1	01/18/16	DD	15 - 110 %
% Terphenyl-d14	105			%	1	01/18/16	DD	30 - 130 %
Semivolatiles (SIM)								
1,2,4,5-Tetrachlorobenzene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	1.0		ug/L	1	01/15/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Anthracene	0.05	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Chrysene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)
Fluorene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80		ug/L	1	01/15/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pyridine	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	95			%	1	01/15/16	DD	15 - 110 %
% 2-Fluorobiphenyl	61			%	1	01/15/16	DD	30 - 130 %
% 2-Fluorophenol	24			%	1	01/15/16	DD	15 - 110 %
% Nitrobenzene-d5	39			%	1	01/15/16	DD	30 - 130 %
% Phenol-d5	40			%	1	01/15/16	DD	15 - 110 %
% Terphenyl-d14	105			%	1	01/15/16	DD	30 - 130 %

Project ID: 150299
Client ID: MW-1

Phoenix I.D.: BK52631

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Due the presence of material that causes the sample to "foam" on the instrument, this sample required a dilution, some compounds are evaluated below the lowest calibration standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 23, 2016
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 22, 2016

FOR: Attn: Mr. AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/12/16	12:05
Location Code:	HYDROBRO	Received by:	LB	01/13/16	16:42
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150299				

Laboratory Data

SDG ID: GBK52631
Phoenix ID: BK52632

Project ID: 150299
Client ID: MW-2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.090	0.010		mg/L	1	01/14/16	EK	SW6010C
Aluminum (Dissolved)	< 0.011	0.011		mg/L	1	01/14/16	LK	SW6010C
Antimony (Dissolved)	0.009	0.003		mg/L	1	01/15/16	LK	SW6010C
Antimony	< 0.003	0.003		mg/L	1	01/14/16	EK	SW6010C
Arsenic	0.007	0.004		mg/L	1	01/14/16	EK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004		mg/L	1	01/14/16	LK	SW6010C
Barium	0.264	0.002		mg/L	1	01/14/16	EK	SW6010C
Barium (Dissolved)	0.153	0.002		mg/L	1	01/14/16	LK	SW6010C
Beryllium	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Calcium	175	0.10		mg/L	10	01/15/16	LK	SW6010C
Cadmium	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C
Calcium (Dissolved)	214	0.11		mg/L	10	01/14/16	EK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Chromium	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Cobalt	< 0.002	0.002		mg/L	1	01/14/16	EK	SW6010C
Copper	< 0.005	0.005		mg/L	1	01/14/16	EK	SW6010C
Cobalt (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Copper (Dissolved)	0.007	0.005		mg/L	1	01/14/16	LK	SW6010C
Iron (Dissolved)	0.056	0.011		mg/L	1	01/14/16	LK	SW6010C
Iron	2.85	0.010		mg/L	1	01/14/16	EK	SW6010C
Lead (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Lead	0.003	0.002		mg/L	1	01/14/16	EK	SW6010C
Magnesium (Dissolved)	20.2	0.01		mg/L	1	01/14/16	LK	SW6010C
Manganese (Dissolved)	0.533	0.001		mg/L	1	01/14/16	LK	SW6010C
Magnesium	23.0	0.01		mg/L	1	01/14/16	EK	SW6010C
Manganese	0.973	0.001		mg/L	1	01/14/16	EK	SW6010C

Project ID: 150299
Client ID: MW-2

Phoenix I.D.: BK52632

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	01/18/16	RS	SW7470A
Mercury	< 0.0002	0.0002		mg/L	1	01/15/16	RS	SW7470A
Nickel (Dissolved)	0.004	0.001		mg/L	1	01/14/16	LK	SW6010C
Nickel	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C
Potassium (Dissolved)	22.1	0.1		mg/L	1	01/14/16	LK	SW6010C
Potassium	24.7	0.1		mg/L	1	01/14/16	EK	SW6010C
Selenium (Dissolved)	< 0.002	0.002		mg/L	1	01/15/16	RS	E200.9/SM3113B-10
Selenium	< 0.010	0.010		mg/L	1	01/14/16	EK	SW6010C
Silver	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C
Silver (Dissolved)	< 0.001	0.001		mg/L	1	01/15/16	LK	SW6010C
Sodium (Dissolved)	52.5	0.11		mg/L	1	01/14/16	LK	SW6010C
Sodium	51.1	1.0		mg/L	10	01/15/16	LK	SW6010C
Thallium (Dissolved)	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SW7010
Thallium	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SM3113B/SW7010-1
Trivalent Chromium	< 0.001	0.001		mg/L	1			SW6010C
Vanadium (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Vanadium	< 0.002	0.002		mg/L	1	01/14/16	EK	SW6010C
Zinc (Dissolved)	1.04	0.002		mg/L	1	01/14/16	LK	SW6010C
Zinc	0.004	0.002		mg/L	1	01/14/16	EK	SW6010C
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	01/13/16 17:30	O	SM3500CRB/SW7196
Filtration	Completed					01/13/16	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					01/17/16	W/W	SW7470A
Mercury Digestion	Completed					01/15/16	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					01/13/16	L	SW3510C
Extraction for Pest (2 Liter)	Completed					01/13/16	L	SW3510C
Semi-Volatile Extraction	Completed					01/13/16	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					01/13/16	AG	SW3005A
Total Metals Digestion	Completed					01/13/16	AG/T	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
QA/QC Surrogates								
% DCBP	51			%	1	01/14/16	AW	30 - 150 %
% TCMX	62			%	1	01/14/16	AW	30 - 150 %
Pesticides								
4,4' -DDD	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
4,4' -DDE	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
4,4' -DDT	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
a-BHC	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
Alachlor	ND	0.075		ug/L	1	01/16/16	CE	SW8081B 1
Aldrin	ND	0.002		ug/L	1	01/16/16	CE	SW8081B

Project ID: 150299
Client ID: MW-2

Phoenix I.D.: BK52632

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
b-BHC	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Chlordane	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
d-BHC	ND	0.025		ug/L	1	01/16/16	CE	SW8081B	
Dieldrin	ND	0.002		ug/L	1	01/16/16	CE	SW8081B	
Endosulfan I	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endosulfan II	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endosulfan Sulfate	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endrin	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Endrin Aldehyde	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endrin ketone	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
g-BHC (Lindane)	ND	0.025		ug/L	1	01/16/16	CE	SW8081B	
Heptachlor	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Heptachlor epoxide	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Methoxychlor	ND	0.10		ug/L	1	01/16/16	CE	SW8081B	
Toxaphene	ND	1.0		ug/L	1	01/16/16	CE	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	50			%	1	01/16/16	CE	30 - 150 %	
%TCMX (Surrogate Rec)	59			%	1	01/16/16	CE	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1,1-Trichloroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1,2,2-Tetrachloroethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1,2-Trichloroethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1-Dichloroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1-Dichloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,1-Dichloropropene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2,3-Trichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2,3-Trichloropropane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2,4-Trichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2,4-Trimethylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dibromoethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dichloroethane	ND	0.60		ug/L	2	01/16/16	M/P	SW8260C	
1,2-Dichloropropane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
1,3,5-Trimethylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,3-Dichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,3-Dichloropropane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
1,4-Dichlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
2,2-Dichloropropane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
2-Chlorotoluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
2-Hexanone	ND	10		ug/L	2	01/16/16	M/P	SW8260C	
2-Isopropyltoluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	1
4-Chlorotoluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
4-Methyl-2-pentanone	ND	10		ug/L	2	01/16/16	M/P	SW8260C	
Acetone	ND	50		ug/L	2	01/16/16	M/P	SW8260C	
Acrylonitrile	ND	5.0		ug/L	2	01/16/16	M/P	SW8260C	
Benzene	ND	0.70		ug/L	2	01/16/16	M/P	SW8260C	
Bromobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	

Project ID: 150299
Client ID: MW-2

Phoenix I.D.: BK52632

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bromochloromethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Bromodichloromethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
Bromoform	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Bromomethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Carbon Disulfide	ND	10		ug/L	2	01/16/16	M/P	SW8260C	
Carbon tetrachloride	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Chlorobenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Chloroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Chloroform	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Chloromethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
cis-1,2-Dichloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
cis-1,3-Dichloropropene	ND	0.40		ug/L	2	01/16/16	M/P	SW8260C	
Dibromochloromethane	ND	1.0		ug/L	2	01/16/16	M/P	SW8260C	
Dibromomethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Dichlorodifluoromethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Ethylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Hexachlorobutadiene	ND	0.40		ug/L	2	01/16/16	M/P	SW8260C	
Isopropylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
m&p-Xylene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Methyl ethyl ketone	ND	10		ug/L	2	01/16/16	M/P	SW8260C	
Methyl t-butyl ether (MTBE)	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Methylene chloride	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Naphthalene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
n-Butylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
n-Propylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
o-Xylene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
p-Isopropyltoluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
sec-Butylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Styrene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
tert-Butylbenzene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Tetrachloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Tetrahydrofuran (THF)	ND	5.0		ug/L	2	01/16/16	M/P	SW8260C	1
Toluene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Total Xylenes	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
trans-1,2-Dichloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
trans-1,3-Dichloropropene	ND	0.40		ug/L	2	01/16/16	M/P	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0		ug/L	2	01/16/16	M/P	SW8260C	
Trichloroethene	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Trichlorofluoromethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Trichlorotrifluoroethane	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
Vinyl chloride	ND	2.0		ug/L	2	01/16/16	M/P	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	103			%	2	01/16/16	M/P	70 - 130 %	
% Bromofluorobenzene	97			%	2	01/16/16	M/P	70 - 130 %	
% Dibromofluoromethane	101			%	2	01/16/16	M/P	70 - 130 %	
% Toluene-d8	100			%	2	01/16/16	M/P	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D

Project ID: 150299
Client ID: MW-2

Phoenix I.D.: BK52632

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dimethylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dinitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Chloronaphthalene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Chlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10		ug/L	1	01/18/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
3-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Chloroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
Acetophenone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Aniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Benzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Benzoic acid	ND	50		ug/L	1	01/18/16	DD	SW8270D
Benzyl butyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Carbazole	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Dibenzofuran	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Diethyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Dimethylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Di-n-butylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Di-n-octylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Isophorone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodimethylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodiphenylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Phenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	106			%	1	01/18/16	DD	15 - 110 %
% 2-Fluorobiphenyl	62			%	1	01/18/16	DD	30 - 130 %
% 2-Fluorophenol	35			%	1	01/18/16	DD	15 - 110 %

Project ID: 150299
Client ID: MW-2

Phoenix I.D.: BK52632

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	52			%	1	01/18/16	DD	30 - 130 %
% Phenol-d5	48			%	1	01/18/16	DD	15 - 110 %
% Terphenyl-d14	94			%	1	01/18/16	DD	30 - 130 %
Semivolatiles (SIM)								
1,2,4,5-Tetrachlorobenzene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	1.0		ug/L	1	01/15/16	DD	SW8270D (SIM)
Acenaphthene	0.08	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Anthracene	0.04	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Chrysene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)
Fluorene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80		ug/L	1	01/15/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pyrene	0.03	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pyridine	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	106			%	1	01/15/16	DD	15 - 110 %
% 2-Fluorobiphenyl	62			%	1	01/15/16	DD	30 - 130 %
% 2-Fluorophenol	35			%	1	01/15/16	DD	15 - 110 %
% Nitrobenzene-d5	52			%	1	01/15/16	DD	30 - 130 %
% Phenol-d5	48			%	1	01/15/16	DD	15 - 110 %
% Terphenyl-d14	94			%	1	01/15/16	DD	30 - 130 %

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Due the presence of material that causes the sample to "foam" on the instrument, this sample required a dilution, some compounds are evaluated below the lowest calibration standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 23, 2016
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 22, 2016

FOR: Attn: Mr. AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/12/16	10:45
Location Code:	HYDROBRO	Received by:	LB	01/13/16	16:42
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150299				

Laboratory Data

SDG ID: GBK52631
Phoenix ID: BK52633

Project ID: 150299
Client ID: MW-3

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Aluminum	0.994	0.010		mg/L	1	01/14/16	EK	SW6010C	
Aluminum (Dissolved)	< 0.011	0.011		mg/L	1	01/14/16	LK	SW6010C	
Antimony (Dissolved)	0.009	0.003		mg/L	1	01/15/16	LK	SW6010C	
Antimony	< 0.003	0.003		mg/L	1	01/14/16	EK	SW6010C	
Arsenic	< 0.004	0.004		mg/L	1	01/14/16	EK	SW6010C	
Arsenic (Dissolved)	< 0.004	0.004		mg/L	1	01/14/16	LK	SW6010C	
Barium	0.130	0.002		mg/L	1	01/14/16	EK	SW6010C	
Barium (Dissolved)	0.148	0.002		mg/L	1	01/14/16	LK	SW6010C	
Beryllium	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C	
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C	
Calcium	538	0.10		mg/L	10	01/15/16	LK	SW6010C	
Cadmium	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C	
Calcium (Dissolved)	210	0.11		mg/L	10	01/14/16	EK	SW6010C	B
Cadmium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C	
Chromium	0.020	0.001		mg/L	1	01/14/16	EK	SW6010C	
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C	
Cobalt	< 0.002	0.002		mg/L	1	01/14/16	EK	SW6010C	
Copper	0.034	0.005		mg/L	1	01/14/16	EK	SW6010C	
Cobalt (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C	
Copper (Dissolved)	0.005	0.005		mg/L	1	01/14/16	LK	SW6010C	
Iron (Dissolved)	0.045	0.011		mg/L	1	01/14/16	LK	SW6010C	
Iron	1.10	0.010		mg/L	1	01/14/16	EK	SW6010C	
Lead (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C	
Lead	0.024	0.002		mg/L	1	01/14/16	EK	SW6010C	
Magnesium (Dissolved)	20.1	0.01		mg/L	1	01/14/16	LK	SW6010C	
Manganese (Dissolved)	0.428	0.001		mg/L	1	01/18/16	LK	SW6010C	
Magnesium	69.5	0.01		mg/L	1	01/14/16	EK	SW6010C	
Manganese	0.137	0.001		mg/L	1	01/18/16	LK	SW6010C	

Project ID: 150299
Client ID: MW-3

Phoenix I.D.: BK52633

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	01/18/16	RS	SW7470A
Mercury	< 0.0002	0.0002		mg/L	1	01/15/16	RS	SW7470A
Nickel (Dissolved)	0.004	0.001		mg/L	1	01/14/16	LK	SW6010C
Nickel	0.003	0.001		mg/L	1	01/14/16	EK	SW6010C
Potassium (Dissolved)	22.1	0.1		mg/L	1	01/14/16	LK	SW6010C
Potassium	15.1	0.1		mg/L	1	01/14/16	EK	SW6010C
Selenium (Dissolved)	< 0.002	0.002		mg/L	1	01/15/16	RS	E200.9/SM3113B-10
Selenium	< 0.010	0.010		mg/L	1	01/14/16	EK	SW6010C
Silver	< 0.001	0.001		mg/L	1	01/14/16	EK	SW6010C
Silver (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Sodium (Dissolved)	52.1	0.11		mg/L	1	01/14/16	LK	SW6010C
Sodium	80.5	1.0		mg/L	10	01/15/16	LK	SW6010C
Thallium (Dissolved)	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SW7010
Thallium	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SM3113B/SW7010-1
Trivalent Chromium	0.020	0.001		mg/L	1			SW6010C
Vanadium (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Vanadium	< 0.002	0.002		mg/L	1	01/14/16	EK	SW6010C
Zinc (Dissolved)	1.15	0.002		mg/L	1	01/14/16	LK	SW6010C
Zinc	0.068	0.002		mg/L	1	01/14/16	EK	SW6010C
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	01/13/16 17:30	O	SM3500CRB/SW7196
Filtration	Completed					01/15/16	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					01/17/16	W/W	SW7470A
Mercury Digestion	Completed					01/15/16	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					01/13/16	L	SW3510C
Extraction for Pest (2 Liter)	Completed					01/13/16	L	SW3510C
Semi-Volatile Extraction	Completed					01/13/16	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					01/15/16	AG	SW3005A
Total Metals Digestion	Completed					01/15/16	AG	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	0.050	0.050	ug/L	1	01/15/16	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	01/15/16	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	01/15/16	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	01/15/16	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	01/15/16	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	01/15/16	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	01/15/16	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	01/15/16	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	01/15/16	AW	E608/SW8082A
QA/QC Surrogates								
% DCBP	48			%	1	01/15/16	AW	30 - 150 %
% TCMX	59			%	1	01/15/16	AW	30 - 150 %
Pesticides								
4,4' -DDD	ND	0.025		ug/L	10	01/18/16	CE	SW8081B
4,4' -DDE	ND	0.025		ug/L	10	01/18/16	CE	SW8081B
4,4' -DDT	ND	0.025		ug/L	10	01/18/16	CE	SW8081B
a-BHC	ND	0.025		ug/L	10	01/18/16	CE	SW8081B
Alachlor	ND	0.75		ug/L	10	01/18/16	CE	SW8081B 1
Aldrin	ND	0.015		ug/L	10	01/18/16	CE	SW8081B

Project ID: 150299
Client ID: MW-3

Phoenix I.D.: BK52633

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
b-BHC	ND	0.025		ug/L	10	01/18/16	CE	SW8081B	
Chlordane	0.61	0.50		ug/L	10	01/18/16	CE	SW8081B	
d-BHC	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
Dieldrin	ND	0.015		ug/L	10	01/18/16	CE	SW8081B	
Endosulfan I	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
Endosulfan II	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
Endosulfan Sulfate	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
Endrin	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
Endrin Aldehyde	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
Endrin ketone	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
g-BHC (Lindane)	ND	0.025		ug/L	10	01/18/16	CE	SW8081B	
Heptachlor	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
Heptachlor epoxide	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
Methoxychlor	ND	0.050		ug/L	10	01/18/16	CE	SW8081B	
Toxaphene	ND	10		ug/L	10	01/18/16	CE	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	Diluted Out			%	10	01/18/16	CE	30 - 150 %	
%TCMX (Surrogate Rec)	Diluted Out			%	10	01/18/16	CE	30 - 150 %	

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,1,1-Trichloroethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,1,2,2-Tetrachloroethane	ND	2.5		ug/L	5	01/16/16	M/P	SW8260C	
1,1,2-Trichloroethane	ND	1.0		ug/L	5	01/16/16	M/P	SW8260C	
1,1-Dichloroethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,1-Dichloroethene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,1-Dichloropropene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,2,3-Trichlorobenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,2,3-Trichloropropane	ND	1.0		ug/L	5	01/16/16	M/P	SW8260C	
1,2,4-Trichlorobenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,2,4-Trimethylbenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,2-Dibromo-3-chloropropane	ND	2.5		ug/L	5	01/16/16	M/P	SW8260C	
1,2-Dibromoethane	ND	1.0		ug/L	5	01/16/16	M/P	SW8260C	
1,2-Dichlorobenzene	ND	2.5		ug/L	5	01/16/16	M/P	SW8260C	
1,2-Dichloroethane	ND	1.0		ug/L	5	01/16/16	M/P	SW8260C	
1,2-Dichloropropane	ND	1.0		ug/L	5	01/16/16	M/P	SW8260C	
1,3,5-Trimethylbenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,3-Dichlorobenzene	ND	2.5		ug/L	5	01/16/16	M/P	SW8260C	
1,3-Dichloropropane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
1,4-Dichlorobenzene	ND	2.5		ug/L	5	01/16/16	M/P	SW8260C	
2,2-Dichloropropane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
2-Chlorotoluene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
2-Hexanone	ND	25		ug/L	5	01/16/16	M/P	SW8260C	
2-Isopropyltoluene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	1
4-Chlorotoluene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
4-Methyl-2-pentanone	ND	25		ug/L	5	01/16/16	M/P	SW8260C	
Acetone	ND	25		ug/L	5	01/16/16	M/P	SW8260C	
Acrylonitrile	ND	13		ug/L	5	01/16/16	M/P	SW8260C	
Benzene	ND	1.0		ug/L	5	01/16/16	M/P	SW8260C	
Bromobenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	

Project ID: 150299
Client ID: MW-3

Phoenix I.D.: BK52633

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bromochloromethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Bromodichloromethane	ND	2.5		ug/L	5	01/16/16	M/P	SW8260C	
Bromoform	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Bromomethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Carbon Disulfide	ND	25		ug/L	5	01/16/16	M/P	SW8260C	
Carbon tetrachloride	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Chlorobenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Chloroethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Chloroform	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Chloromethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
cis-1,2-Dichloroethene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
cis-1,3-Dichloropropene	ND	1.0		ug/L	5	01/16/16	M/P	SW8260C	
Dibromochloromethane	ND	2.5		ug/L	5	01/16/16	M/P	SW8260C	
Dibromomethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Dichlorodifluoromethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Ethylbenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Hexachlorobutadiene	ND	0.50		ug/L	5	01/16/16	M/P	SW8260C	
Isopropylbenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
m&p-Xylene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Methyl ethyl ketone	ND	25		ug/L	5	01/16/16	M/P	SW8260C	
Methyl t-butyl ether (MTBE)	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Methylene chloride	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Naphthalene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
n-Butylbenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
n-Propylbenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
o-Xylene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
p-Isopropyltoluene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
sec-Butylbenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Styrene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
tert-Butylbenzene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Tetrachloroethene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Tetrahydrofuran (THF)	ND	13		ug/L	5	01/16/16	M/P	SW8260C	1
Toluene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Total Xylenes	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
trans-1,2-Dichloroethene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
trans-1,3-Dichloropropene	ND	1.0		ug/L	5	01/16/16	M/P	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Trichloroethene	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Trichlorofluoromethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Trichlorotrifluoroethane	ND	5.0		ug/L	5	01/16/16	M/P	SW8260C	
Vinyl chloride	ND	2.0		ug/L	5	01/16/16	M/P	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	101			%	5	01/16/16	M/P	70 - 130 %	
% Bromofluorobenzene	97			%	5	01/16/16	M/P	70 - 130 %	
% Dibromofluoromethane	100			%	5	01/16/16	M/P	70 - 130 %	
% Toluene-d8	101			%	5	01/16/16	M/P	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D

Project ID: 150299
Client ID: MW-3

Phoenix I.D.: BK52633

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
1,2-Diphenylhydrazine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
1,3-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D	
1,4-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D	
2,4,5-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
2,4,6-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
2,4-Dichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
2,4-Dimethylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
2,4-Dinitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
2,4-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
2,6-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
2-Chloronaphthalene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
2-Chlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
2-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
2-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	10		ug/L	1	01/18/16	DD	SW8270D	
3,3'-Dichlorobenzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
3-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
4-Chloro-3-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
4-Chloroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
4-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
4-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
Acetophenone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Aniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Benzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Benzoic acid	ND	50		ug/L	1	01/18/16	DD	SW8270D	
Benzyl butyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Carbazole	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Dibenzofuran	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Diethyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Dimethylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Di-n-butylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Di-n-octylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Hexachlorocyclopentadiene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Isophorone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
N-Nitrosodimethylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
N-Nitrosodiphenylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D	
Phenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	120			%	1	01/18/16	DD	15 - 110 %	3
% 2-Fluorobiphenyl	88			%	1	01/18/16	DD	30 - 130 %	
% 2-Fluorophenol	71			%	1	01/18/16	DD	15 - 110 %	

Project ID: 150299
Client ID: MW-3

Phoenix I.D.: BK52633

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
% Nitrobenzene-d5	89			%	1	01/18/16	DD	30 - 130 %	
% Phenol-d5	80			%	1	01/18/16	DD	15 - 110 %	
% Terphenyl-d14	91			%	1	01/18/16	DD	30 - 130 %	
Semivolatiles (SIM)									
1,2,4,5-Tetrachlorobenzene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)	
2-Methylnaphthalene	ND	1.0		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Acenaphthene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Anthracene	0.27	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Benz(a)anthracene	0.17	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Benzo(a)pyrene	0.15	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	0.13	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	0.14	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Chrysene	0.15	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Dibenz(a,h)anthracene	0.04	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Fluoranthene	0.37	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Fluorene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Hexachloroethane	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	0.09	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Naphthalene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Pentachloronitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Pentachlorophenol	1.4	0.80		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Phenanthrene	0.16	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Pyrene	0.32	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)	
Pyridine	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)	
QA/QC Surrogates									
% 2,4,6-Tribromophenol	120			%	1	01/15/16	DD	15 - 110 %	3
% 2-Fluorobiphenyl	88			%	1	01/15/16	DD	30 - 130 %	
% 2-Fluorophenol	71			%	1	01/15/16	DD	15 - 110 %	
% Nitrobenzene-d5	89			%	1	01/15/16	DD	30 - 130 %	
% Phenol-d5	80			%	1	01/15/16	DD	15 - 110 %	
% Terphenyl-d14	91			%	1	01/15/16	DD	30 - 130 %	

Project ID: 150299
Client ID: MW-3

Phoenix I.D.: BK52633

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
One of the surrogate recoveries was above the upper range due to sample matrix interference. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

Pesticide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported.

Volatile Comment:
Due the presence of material that causes the sample to "foam" on the instrument, this sample required a dilution, some compounds are evaluated below the lowest calibration standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 23, 2016
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 22, 2016

FOR: Attn: Mr. AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/12/16	13:30
Location Code:	HYDROBRO	Received by:	LB	01/13/16	16:42
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150299				

Laboratory Data

SDG ID: GBK52631
Phoenix ID: BK52634

Project ID: 150299
Client ID: FIELD BLANK 1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Aluminum	< 0.010	0.010		mg/L	1	01/14/16	LK	SW6010C
Aluminum (Dissolved)	< 0.011	0.011		mg/L	1	01/14/16	LK	SW6010C
Antimony (Dissolved)	< 0.003	0.003		mg/L	1	01/14/16	LK	SW6010C
Antimony	< 0.003	0.003		mg/L	1	01/14/16	LK	SW6010C
Arsenic	< 0.004	0.004		mg/L	1	01/14/16	LK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004		mg/L	1	01/14/16	LK	SW6010C
Barium	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Barium (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Beryllium	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Calcium	0.280	0.010		mg/L	1	01/14/16	LK	SW6010C
Cadmium	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Calcium (Dissolved)	0.06	0.01		mg/L	1	01/18/16	EK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Chromium	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Cobalt	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Copper	< 0.005	0.005		mg/L	1	01/14/16	LK	SW6010C
Cobalt (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Copper (Dissolved)	< 0.005	0.005		mg/L	1	01/14/16	LK	SW6010C
Iron (Dissolved)	< 0.011	0.011		mg/L	1	01/14/16	LK	SW6010C
Iron	0.036	0.010		mg/L	1	01/14/16	LK	SW6010C
Lead (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Lead	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Magnesium (Dissolved)	< 0.01	0.01		mg/L	1	01/14/16	LK	SW6010C
Manganese (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Magnesium	0.01	0.01		mg/L	1	01/14/16	LK	SW6010C
Manganese	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C

Project ID: 150299
Client ID: FIELD BLANK 1

Phoenix I.D.: BK52634

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	01/18/16	RS	SW7470A
Mercury	< 0.0002	0.0002		mg/L	1	01/15/16	RS	SW7470A
Nickel (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Nickel	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Potassium (Dissolved)	< 0.1	0.1		mg/L	1	01/14/16	LK	SW6010C
Potassium	< 0.1	0.1		mg/L	1	01/14/16	LK	SW6010C
Selenium (Dissolved)	< 0.002	0.002		mg/L	1	01/15/16	RS	E200.9/SM3113B-10
Selenium	< 0.010	0.010		mg/L	1	01/14/16	LK	SW6010C
Silver	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Silver (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Sodium (Dissolved)	< 0.11	0.11		mg/L	1	01/14/16	LK	SW6010C
Sodium	1.6	0.1		mg/L	1	01/14/16	LK	SW6010C
Thallium (Dissolved)	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SW7010
Thallium	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SM3113B/SW7010-1
Trivalent Chromium	< 0.001	0.001		mg/L	1			SW6010C
Vanadium (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Vanadium	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Zinc (Dissolved)	0.010	0.002		mg/L	1	01/14/16	LK	SW6010C
Zinc	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	01/13/16 17:30	O	SM3500CRB/SW7196
Filtration	Completed					01/13/16	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					01/17/16	W/W	SW7470A
Mercury Digestion	Completed					01/15/16	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					01/13/16	L	SW3510C
Extraction for Pest (2 Liter)	Completed					01/13/16	L	SW3510C
Semi-Volatile Extraction	Completed					01/13/16	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					01/13/16	AG	SW3005A
Total Metals Digestion	Completed					01/13/16	AG	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
QA/QC Surrogates								
% DCBP	60			%	1	01/14/16	AW	30 - 150 %
% TCMX	69			%	1	01/14/16	AW	30 - 150 %
Pesticides								
4,4' -DDD	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
4,4' -DDE	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
4,4' -DDT	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
a-BHC	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
Alachlor	ND	0.075		ug/L	1	01/16/16	CE	SW8081B 1
Aldrin	ND	0.010		ug/L	1	01/16/16	CE	SW8081B

Project ID: 150299
Client ID: FIELD BLANK 1

Phoenix I.D.: BK52634

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
b-BHC	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Chlordane	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
d-BHC	ND	0.025		ug/L	1	01/16/16	CE	SW8081B	
Dieldrin	ND	0.002		ug/L	1	01/16/16	CE	SW8081B	
Endosulfan I	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endosulfan II	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endosulfan Sulfate	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endrin	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Endrin Aldehyde	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endrin ketone	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
g-BHC (Lindane)	ND	0.025		ug/L	1	01/16/16	CE	SW8081B	
Heptachlor	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Heptachlor epoxide	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Methoxychlor	ND	0.10		ug/L	1	01/16/16	CE	SW8081B	
Toxaphene	ND	1.0		ug/L	1	01/16/16	CE	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	53			%	1	01/16/16	CE	30 - 150 %	
%TCMX (Surrogate Rec)	60			%	1	01/16/16	CE	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1,1-Trichloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50		ug/L	1	01/16/16	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1-Dichloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1-Dichloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1-Dichloropropene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dibromoethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dichloroethane	ND	0.60		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dichloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,3-Dichloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
2,2-Dichloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
2-Chlorotoluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
2-Hexanone	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
2-Isopropyltoluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	1
4-Chlorotoluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
4-Methyl-2-pentanone	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Acetone	ND	25		ug/L	1	01/16/16	MH	SW8260C	
Acrylonitrile	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Benzene	ND	0.70		ug/L	1	01/16/16	MH	SW8260C	
Bromobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	

Project ID: 150299
Client ID: FIELD BLANK 1

Phoenix I.D.: BK52634

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bromochloromethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Bromodichloromethane	ND	0.50		ug/L	1	01/16/16	MH	SW8260C	
Bromoform	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Bromomethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Carbon Disulfide	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Carbon tetrachloride	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Chlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Chloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Chloroform	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Chloromethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40		ug/L	1	01/16/16	MH	SW8260C	
Dibromochloromethane	ND	0.50		ug/L	1	01/16/16	MH	SW8260C	
Dibromomethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Ethylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Hexachlorobutadiene	ND	0.40		ug/L	1	01/16/16	MH	SW8260C	
Isopropylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
m&p-Xylene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Methyl ethyl ketone	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Methylene chloride	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Naphthalene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
n-Butylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
n-Propylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
o-Xylene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
p-Isopropyltoluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
sec-Butylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Styrene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
tert-Butylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Tetrachloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Tetrahydrofuran (THF)	ND	2.5		ug/L	1	01/16/16	MH	SW8260C	1
Toluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Total Xylenes	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
trans-1,2-Dichloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40		ug/L	1	01/16/16	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Trichloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Trichlorofluoromethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Vinyl chloride	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	102			%	1	01/16/16	MH	70 - 130 %	
% Bromofluorobenzene	96			%	1	01/16/16	MH	70 - 130 %	
% Dibromofluoromethane	103			%	1	01/16/16	MH	70 - 130 %	
% Toluene-d8	99			%	1	01/16/16	MH	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D

Project ID: 150299
Client ID: FIELD BLANK 1

Phoenix I.D.: BK52634

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dimethylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dinitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Chloronaphthalene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Chlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10		ug/L	1	01/18/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
3-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Chloroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
Acetophenone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Aniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Benzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Benzoic acid	ND	50		ug/L	1	01/18/16	DD	SW8270D
Benzyl butyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Carbazole	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Dibenzofuran	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Diethyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Dimethylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Di-n-butylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Di-n-octylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Isophorone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodimethylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodiphenylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Phenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	103			%	1	01/18/16	DD	15 - 110 %
% 2-Fluorobiphenyl	71			%	1	01/18/16	DD	30 - 130 %
% 2-Fluorophenol	63			%	1	01/18/16	DD	15 - 110 %

Project ID: 150299
Client ID: FIELD BLANK 1

Phoenix I.D.: BK52634

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	71			%	1	01/18/16	DD	30 - 130 %
% Phenol-d5	65			%	1	01/18/16	DD	15 - 110 %
% Terphenyl-d14	116			%	1	01/18/16	DD	30 - 130 %
Semivolatiles (SIM)								
1,2,4,5-Tetrachlorobenzene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	1.0		ug/L	1	01/15/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Chrysene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)
Fluorene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80		ug/L	1	01/15/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pyridine	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	103			%	1	01/15/16	DD	15 - 110 %
% 2-Fluorobiphenyl	71			%	1	01/15/16	DD	30 - 130 %
% 2-Fluorophenol	63			%	1	01/15/16	DD	15 - 110 %
% Nitrobenzene-d5	71			%	1	01/15/16	DD	30 - 130 %
% Phenol-d5	65			%	1	01/15/16	DD	15 - 110 %
% Terphenyl-d14	116			%	1	01/15/16	DD	30 - 130 %

Project ID: 150299

Client ID: FIELD BLANK 1

Phoenix I.D.: BK52634

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 22, 2016

FOR: Attn: Mr. AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/12/16	13:40
Location Code:	HYDROBRO	Received by:	LB	01/13/16	16:42
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150299				

Laboratory Data

SDG ID: GBK52631
Phoenix ID: BK52635

Project ID: 150299
Client ID: FIELD BLANK 2

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Aluminum	< 0.010	0.010		mg/L	1	01/14/16	LK	SW6010C
Aluminum (Dissolved)	< 0.011	0.011		mg/L	1	01/14/16	LK	SW6010C
Antimony (Dissolved)	< 0.003	0.003		mg/L	1	01/14/16	LK	SW6010C
Antimony	< 0.003	0.003		mg/L	1	01/14/16	LK	SW6010C
Arsenic	< 0.004	0.004		mg/L	1	01/14/16	LK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004		mg/L	1	01/14/16	LK	SW6010C
Barium	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Barium (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Beryllium	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Beryllium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Calcium	0.061	0.010		mg/L	1	01/14/16	LK	SW6010C
Cadmium	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Calcium (Dissolved)	0.04	0.01		mg/L	1	01/18/16	EK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Chromium	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Chromium (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Cobalt	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Copper	< 0.005	0.005		mg/L	1	01/14/16	LK	SW6010C
Cobalt (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Copper (Dissolved)	< 0.005	0.005		mg/L	1	01/14/16	LK	SW6010C
Iron (Dissolved)	< 0.011	0.011		mg/L	1	01/14/16	LK	SW6010C
Iron	< 0.010	0.010		mg/L	1	01/14/16	LK	SW6010C
Lead (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Lead	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Magnesium (Dissolved)	< 0.01	0.01		mg/L	1	01/14/16	LK	SW6010C
Manganese (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Magnesium	< 0.01	0.01		mg/L	1	01/14/16	LK	SW6010C
Manganese	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C

Project ID: 150299
Client ID: FIELD BLANK 2

Phoenix I.D.: BK52635

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Mercury (Dissolved)	< 0.0002	0.0002		mg/L	1	01/18/16	RS	SW7470A
Mercury	< 0.0002	0.0002		mg/L	1	01/15/16	RS	SW7470A
Nickel (Dissolved)	0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Nickel	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Potassium (Dissolved)	< 0.1	0.1		mg/L	1	01/14/16	LK	SW6010C
Potassium	< 0.1	0.1		mg/L	1	01/14/16	LK	SW6010C
Selenium (Dissolved)	< 0.002	0.002		mg/L	1	01/15/16	RS	E200.9/SM3113B-10
Selenium	< 0.010	0.010		mg/L	1	01/14/16	LK	SW6010C
Silver	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Silver (Dissolved)	< 0.001	0.001		mg/L	1	01/14/16	LK	SW6010C
Sodium (Dissolved)	< 0.11	0.11		mg/L	1	01/14/16	LK	SW6010C
Sodium	0.3	0.1		mg/L	1	01/14/16	LK	SW6010C
Thallium (Dissolved)	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SW7010
Thallium	< 0.0005	0.0005		mg/L	1	01/18/16	RS	SM3113B/SW7010-1
Trivalent Chromium	< 0.001	0.001		mg/L	1			SW6010C
Vanadium (Dissolved)	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Vanadium	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Zinc (Dissolved)	0.010	0.002		mg/L	1	01/14/16	LK	SW6010C
Zinc	< 0.002	0.002		mg/L	1	01/14/16	LK	SW6010C
Chromium, Hexavalent	< 0.01	0.01		mg/L	1	01/13/16 17:30	O	SM3500CRB/SW7196
Filtration	Completed					01/13/16	AG	0.45um Filter
Dissolved Mercury Digestion	Completed					01/17/16	W/W	SW7470A
Mercury Digestion	Completed					01/15/16	W/W	SW7470A
PCB Extraction (2 Liter)	Completed					01/13/16	L	SW3510C
Extraction for Pest (2 Liter)	Completed					01/13/16	L	SW3510C
Semi-Volatile Extraction	Completed					01/13/16	E/D/D	SW3520C
Dissolved Metals Preparation	Completed					01/13/16	AG	SW3005A
Total Metals Digestion	Completed					01/13/16	AG	SW3050B
Polychlorinated Biphenyls								
PCB-1016	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1221	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1232	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1242	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1248	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1254	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1260	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1262	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
PCB-1268	ND	0.050	0.050	ug/L	1	01/14/16	AW	E608/SW8082A
QA/QC Surrogates								
% DCBP	66			%	1	01/14/16	AW	30 - 150 %
% TCMX	71			%	1	01/14/16	AW	30 - 150 %
Pesticides								
4,4' -DDD	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
4,4' -DDE	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
4,4' -DDT	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
a-BHC	ND	0.005		ug/L	1	01/16/16	CE	SW8081B
Alachlor	ND	0.075		ug/L	1	01/16/16	CE	SW8081B 1
Aldrin	ND	0.002		ug/L	1	01/16/16	CE	SW8081B

Project ID: 150299
Client ID: FIELD BLANK 2

Phoenix I.D.: BK52635

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
b-BHC	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Chlordane	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
d-BHC	ND	0.025		ug/L	1	01/16/16	CE	SW8081B	
Dieldrin	ND	0.002		ug/L	1	01/16/16	CE	SW8081B	
Endosulfan I	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Endosulfan II	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Endosulfan Sulfate	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endrin	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Endrin Aldehyde	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
Endrin ketone	ND	0.050		ug/L	1	01/16/16	CE	SW8081B	
g-BHC (Lindane)	ND	0.025		ug/L	1	01/16/16	CE	SW8081B	
Heptachlor	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Heptachlor epoxide	ND	0.005		ug/L	1	01/16/16	CE	SW8081B	
Methoxychlor	ND	0.10		ug/L	1	01/16/16	CE	SW8081B	
Toxaphene	ND	1.0		ug/L	1	01/16/16	CE	SW8081B	
QA/QC Surrogates									
%DCBP (Surrogate Rec)	62			%	1	01/16/16	CE	30 - 150 %	
%TCMX (Surrogate Rec)	67			%	1	01/16/16	CE	30 - 150 %	
Volatiles									
1,1,1,2-Tetrachloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1,1-Trichloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50		ug/L	1	01/16/16	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1-Dichloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1-Dichloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,1-Dichloropropene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dibromoethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dichloroethane	ND	0.60		ug/L	1	01/16/16	MH	SW8260C	
1,2-Dichloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,3-Dichloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
2,2-Dichloropropane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
2-Chlorotoluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
2-Hexanone	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
2-Isopropyltoluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	1
4-Chlorotoluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
4-Methyl-2-pentanone	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Acetone	ND	25		ug/L	1	01/16/16	MH	SW8260C	
Acrylonitrile	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Benzene	ND	0.70		ug/L	1	01/16/16	MH	SW8260C	
Bromobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	

Project ID: 150299
Client ID: FIELD BLANK 2

Phoenix I.D.: BK52635

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Bromochloromethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Bromodichloromethane	ND	0.50		ug/L	1	01/16/16	MH	SW8260C	
Bromoform	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Bromomethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Carbon Disulfide	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Carbon tetrachloride	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Chlorobenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Chloroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Chloroform	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Chloromethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40		ug/L	1	01/16/16	MH	SW8260C	
Dibromochloromethane	ND	0.50		ug/L	1	01/16/16	MH	SW8260C	
Dibromomethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Ethylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Hexachlorobutadiene	ND	0.40		ug/L	1	01/16/16	MH	SW8260C	
Isopropylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
m&p-Xylene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Methyl ethyl ketone	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Methylene chloride	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Naphthalene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
n-Butylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
n-Propylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
o-Xylene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
p-Isopropyltoluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
sec-Butylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Styrene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
tert-Butylbenzene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Tetrachloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Tetrahydrofuran (THF)	ND	2.5		ug/L	1	01/16/16	MH	SW8260C	1
Toluene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Total Xylenes	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
trans-1,2-Dichloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40		ug/L	1	01/16/16	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0		ug/L	1	01/16/16	MH	SW8260C	
Trichloroethene	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Trichlorofluoromethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
Vinyl chloride	ND	1.0		ug/L	1	01/16/16	MH	SW8260C	
QA/QC Surrogates									
% 1,2-dichlorobenzene-d4	102			%	1	01/16/16	MH	70 - 130 %	
% Bromofluorobenzene	96			%	1	01/16/16	MH	70 - 130 %	
% Dibromofluoromethane	100			%	1	01/16/16	MH	70 - 130 %	
% Toluene-d8	100			%	1	01/16/16	MH	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D

Project ID: 150299
Client ID: FIELD BLANK 2

Phoenix I.D.: BK52635

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
1,2-Diphenylhydrazine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5		ug/L	1	01/18/16	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dichlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dimethylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dinitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Chloronaphthalene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Chlorophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
2-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
2-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10		ug/L	1	01/18/16	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
3-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Chloroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
4-Nitroaniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
4-Nitrophenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
Acetophenone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Aniline	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Benzidine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Benzoic acid	ND	50		ug/L	1	01/18/16	DD	SW8270D
Benzyl butyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Carbazole	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Dibenzofuran	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Diethyl phthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Dimethylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Di-n-butylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Di-n-octylphthalate	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Isophorone	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodimethylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
N-Nitrosodiphenylamine	ND	5.0		ug/L	1	01/18/16	DD	SW8270D
Phenol	ND	1.0		ug/L	1	01/18/16	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	101			%	1	01/18/16	DD	15 - 110 %
% 2-Fluorobiphenyl	59			%	1	01/18/16	DD	30 - 130 %
% 2-Fluorophenol	45			%	1	01/18/16	DD	15 - 110 %

Project ID: 150299
Client ID: FIELD BLANK 2

Phoenix I.D.: BK52635

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	51			%	1	01/18/16	DD	30 - 130 %
% Phenol-d5	53			%	1	01/18/16	DD	15 - 110 %
% Terphenyl-d14	110			%	1	01/18/16	DD	30 - 130 %
Semivolatiles (SIM)								
1,2,4,5-Tetrachlorobenzene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	1.0		ug/L	1	01/15/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Chrysene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)
Fluorene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.04		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Hexachloroethane	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80		ug/L	1	01/15/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pyrene	ND	0.02		ug/L	1	01/15/16	DD	SW8270D (SIM)
Pyridine	ND	0.50		ug/L	1	01/15/16	DD	SW8270D (SIM)
QA/QC Surrogates								
% 2,4,6-Tribromophenol	101			%	1	01/15/16	DD	15 - 110 %
% 2-Fluorobiphenyl	59			%	1	01/15/16	DD	30 - 130 %
% 2-Fluorophenol	45			%	1	01/15/16	DD	15 - 110 %
% Nitrobenzene-d5	51			%	1	01/15/16	DD	30 - 130 %
% Phenol-d5	53			%	1	01/15/16	DD	15 - 110 %
% Terphenyl-d14	110			%	1	01/15/16	DD	30 - 130 %

Project ID: 150299

Client ID: FIELD BLANK 2

Phoenix I.D.: BK52635

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 22, 2016

FOR: Attn: Mr. AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		01/12/16	
Location Code:	HYDROBRO	Received by:	LB	01/13/16	16:42
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	150299				

Laboratory Data

SDG ID: GBK52631
Phoenix ID: BK52636

Project ID: 150299
Client ID: TRIP BLANK 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	01/16/16	MH	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,2-Dibromoethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	01/16/16	MH	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,3-Dichloropropane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
2,2-Dichloropropane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
2-Chlorotoluene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
2-Hexanone	ND	5.0	ug/L	1	01/16/16	MH	SW8260C	
2-Isopropyltoluene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	1
4-Chlorotoluene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	01/16/16	MH	SW8260C	

Project ID: 150299
Client ID: TRIP BLANK 1

Phoenix I.D.: BK52636

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Acetone	ND	25	ug/L	1	01/16/16	MH	SW8260C	
Acrylonitrile	ND	5.0	ug/L	1	01/16/16	MH	SW8260C	
Benzene	ND	0.70	ug/L	1	01/16/16	MH	SW8260C	
Bromobenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Bromochloromethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Bromodichloromethane	ND	0.50	ug/L	1	01/16/16	MH	SW8260C	
Bromoform	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Bromomethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Carbon Disulfide	ND	5.0	ug/L	1	01/16/16	MH	SW8260C	
Carbon tetrachloride	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Chlorobenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Chloroethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Chloroform	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Chloromethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	01/16/16	MH	SW8260C	
Dibromochloromethane	ND	0.50	ug/L	1	01/16/16	MH	SW8260C	
Dibromomethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Dichlorodifluoromethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Ethylbenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Hexachlorobutadiene	ND	0.40	ug/L	1	01/16/16	MH	SW8260C	
Isopropylbenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
m&p-Xylene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Methyl ethyl ketone	ND	5.0	ug/L	1	01/16/16	MH	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Methylene chloride	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Naphthalene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
n-Butylbenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
n-Propylbenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
o-Xylene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
p-Isopropyltoluene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
sec-Butylbenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Styrene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
tert-Butylbenzene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Tetrachloroethene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	01/16/16	MH	SW8260C	1
Toluene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Total Xylenes	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	01/16/16	MH	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	01/16/16	MH	SW8260C	
Trichloroethene	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Trichlorofluoromethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
Vinyl chloride	ND	1.0	ug/L	1	01/16/16	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	102		%	1	01/16/16	MH	70 - 130 %	
% Bromofluorobenzene	96		%	1	01/16/16	MH	70 - 130 %	
% Dibromofluoromethane	101		%	1	01/16/16	MH	70 - 130 %	

Project ID: 150299

Client ID: TRIP BLANK 1

Phoenix I.D.: BK52636

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101		%	1	01/16/16	MH	70 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 23, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

January 23, 2016

QA/QC Data

SDG I.D.: GBK52631

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 332225 (mg/L), QC Sample No: BK52183 (BK52631, BK52633)													
ICP Metals - Aqueous													
Aluminum	BRL	0.010	0.083	0.074	11.5	99.9	94.9	5.1	108	98.6	9.1	75 - 125	20
Antimony	BRL	0.005	<0.005	<0.005	NC	101	97.2	3.8	93.7	92.9	0.9	75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	97.0	94.7	2.4	90.1	89.1	1.1	75 - 125	20
Barium	BRL	0.002	0.048	0.047	2.10	103	100	3.0	96.6	96.2	0.4	75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	105	104	1.0	98.3	97.8	0.5	75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	100	98.9	1.1	94.3	91.5	3.0	75 - 125	20
Calcium	BRL	0.010	13.5	13.1	3.00	100	98.3	1.7	NC	NC	NC	75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	98.6	97.1	1.5	94.0	91.2	3.0	75 - 125	20
Cobalt	BRL	0.002	<0.002	<0.002	NC	102	101	1.0	96.6	93.8	2.9	75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	98.5	96.9	1.6	94.7	93.5	1.3	75 - 125	20
Iron	BRL	0.010	0.020	0.023	NC	101	99.3	1.7	96.0	92.1	4.1	75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	99.2	97.2	2.0	93.2	90.9	2.5	75 - 125	20
Magnesium	BRL	0.01	1.40	1.34	4.40	104	102	1.9	83.1	82.7	0.5	75 - 125	20
Manganese	BRL	0.001	0.005	0.002	NC	100	98.4	1.6	93.2	90.5	2.9	75 - 125	20
Nickel	BRL	0.001	0.002	0.003	NC	98.3	96.4	2.0	92.5	89.6	3.2	75 - 125	20
Potassium	BRL	0.1	4.1	4.0	2.50	95.0	92.4	2.8	84.5	91.5	8.0	75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	95.4	93.4	2.1	89.9	88.1	2.0	75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	100	99.6	0.4	97.2	95.5	1.8	75 - 125	20
Sodium	BRL	0.1	12.2	12.0	1.70	98.6	94.6	4.1	NC	NC	NC	75 - 125	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	98.7	97.3	1.4	95.3	94.0	1.4	75 - 125	20
Zinc	BRL	0.002	0.008	0.007	NC	99.0	97.2	1.8	94.7	91.7	3.2	75 - 125	20
QA/QC Batch 332092 (mg/L), QC Sample No: BK52222 (BK52634, BK52635)													
ICP Metals - Aqueous													
Aluminum	BRL	0.010	<0.010	<0.010	NC	108	110	1.8	107	109	1.9	75 - 125	20
Antimony	BRL	0.005	<0.005	<0.005	NC	96.0	95.6	0.4	96.2	99.1	3.0	75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	92.6	91.6	1.1	92.7	95.0	2.5	75 - 125	20
Barium	BRL	0.002	<0.002	<0.002	NC	98.2	97.2	1.0	97.3	99.5	2.2	75 - 125	20
Beryllium	BRL	0.001	0.002	<0.001	NC	95.6	94.0	1.7	96.9	96.2	0.7	75 - 125	20
Cadmium	BRL	0.001	0.001	<0.001	NC	95.0	93.9	1.2	95.1	96.3	1.3	75 - 125	20
Calcium	BRL	0.010	0.032	<0.010	NC	98.9	99.7	0.8	95.2	97.1	2.0	75 - 125	20
Chromium	BRL	0.001	0.001	<0.001	NC	94.8	93.5	1.4	94.5	96.8	2.4	75 - 125	20
Cobalt	BRL	0.002	<0.002	<0.002	NC	97.5	96.3	1.2	97.6	99.7	2.1	75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	98.1	96.5	1.6	97.6	99.5	1.9	75 - 125	20
Iron	BRL	0.010	<0.010	<0.010	NC	96.2	94.5	1.8	95.8	98.0	2.3	75 - 125	20
Lead	BRL	0.002	0.004	<0.002	NC	97.4	96.1	1.3	97.0	99.6	2.6	75 - 125	20
Magnesium	BRL	0.01	0.02	<0.01	NC	95.8	94.5	1.4	95.5	95.7	0.2	75 - 125	20
Manganese	BRL	0.001	0.001	<0.001	NC	95.4	94.1	1.4	94.9	96.6	1.8	75 - 125	20
Nickel	BRL	0.001	0.002	0.004	NC	94.8	93.7	1.2	94.7	96.4	1.8	75 - 125	20
Potassium	BRL	0.1	<0.1	<0.1	NC	99.0	102	3.0	96.4	100	3.7	75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	92.4	92.3	0.1	93.0	94.3	1.4	75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	96.4	96.0	0.4	96.0	98.3	2.4	75 - 125	20

QA/QC Data

SDG I.D.: GBK52631

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Sodium	BRL	0.1	<0.1	<0.1	NC	104	109	4.7	101	105	3.9	75 - 125	20	
Vanadium	BRL	0.002	<0.002	<0.002	NC	94.2	92.9	1.4	93.0	95.4	2.5	75 - 125	20	
Zinc	BRL	0.002	0.003	<0.002	NC	95.7	94.9	0.8	95.4	97.5	2.2	75 - 125	20	
QA/QC Batch 332094 (mg/L), QC Sample No: BK52285 (BK52631, BK52632, BK52633, BK52634, BK52635)														
Thallium - Water	BRL	0.001	<0.001	<0.001	NC	109	109	0.0	>130	>130	NC	75 - 125	20	m
QA/QC Batch 332093 (mg/L), QC Sample No: BK52286 (BK52632)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	0.055	0.035	NC	107	108	0.9	97.7	99.8	2.1	75 - 125	20	
Antimony	BRL	0.005	<0.005	<0.005	NC	96.3	95.8	0.5	96.9	96.9	0.0	75 - 125	20	
Arsenic	BRL	0.004	<0.004	<0.004	NC	92.4	91.8	0.7	91.6	92.0	0.4	75 - 125	20	
Barium	BRL	0.002	0.028	0.028	0	96.2	97.1	0.9	90.9	92.3	1.5	75 - 125	20	
Beryllium	BRL	0.001	<0.001	<0.001	NC	95.8	96.5	0.7	94.0	95.2	1.3	75 - 125	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	94.6	94.6	0.0	90.3	90.7	0.4	75 - 125	20	
Calcium	BRL	0.010	42.3	42.9	1.40	97.7	100	2.3	NC	NC	NC	75 - 125	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	94.5	93.8	0.7	90.1	90.4	0.3	75 - 125	20	
Cobalt	BRL	0.002	<0.002	<0.002	NC	97.2	96.9	0.3	92.1	92.6	0.5	75 - 125	20	
Copper	BRL	0.005	0.005	<0.005	NC	95.2	96.7	1.6	92.6	93.3	0.8	75 - 125	20	
Iron	BRL	0.010	0.182	0.185	1.60	95.6	95.7	0.1	90.7	91.2	0.5	75 - 125	20	
Lead	BRL	0.002	0.003	0.003	NC	97.0	97.1	0.1	91.5	91.5	0.0	75 - 125	20	
Magnesium	BRL	0.01	5.52	5.60	1.40	96.6	96.6	0.0	NC	NC	NC	75 - 125	20	
Manganese	BRL	0.001	0.209	0.211	1.00	94.8	94.9	0.1	89.4	90.0	0.7	75 - 125	20	
Nickel	BRL	0.001	0.003	0.003	NC	94.3	94.2	0.1	88.6	88.9	0.3	75 - 125	20	
Potassium	BRL	0.1	9.5	9.9	4.10	95.4	98.0	2.7	88.5	95.1	7.2	75 - 125	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	92.4	91.9	0.5	89.8	90.4	0.7	75 - 125	20	
Silver	BRL	0.001	<0.001	<0.001	NC	94.0	95.8	1.9	91.7	93.8	2.3	75 - 125	20	
Sodium	BRL	0.1	141	143	1.40	103	104	1.0	NC	NC	NC	75 - 125	20	
Vanadium	BRL	0.002	<0.002	<0.002	NC	92.7	93.3	0.6	89.8	91.1	1.4	75 - 125	20	
Zinc	BRL	0.002	0.024	0.025	4.10	95.2	95.2	0.0	92.9	92.9	0.0	75 - 125	20	
QA/QC Batch 332108 (mg/L), QC Sample No: BK52617 (BK52632, BK52634, BK52635)														
ICP Metals - Dissolved														
Aluminum	BRL	0.011	<0.011	<0.011	NC	88.4	90.8	2.7	92.3	99.8	7.8	75 - 125	20	
Antimony	BRL	0.005	<0.003	<0.005	NC	94.7	94.5	0.2	96.6	99.1	2.6	75 - 125	20	
Arsenic	BRL	0.004	<0.004	<0.004	NC	91.7	91.4	0.3	96.0	97.8	1.9	75 - 125	20	
Barium	BRL	0.002	0.053	0.054	1.90	97.6	96.0	1.7	100	101	1.0	75 - 125	20	
Beryllium	BRL	0.001	<0.001	<0.001	NC	97.3	95.4	2.0	100	102	2.0	75 - 125	20	
Cadmium	BRL	0.001	<0.004	<0.001	NC	91.3	91.5	0.2	92.6	94.0	1.5	75 - 125	20	
Calcium	BRL	0.01	75.1	75.8	0.90	90.9	90.2	0.8	NC	NC	NC	75 - 125	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	91.5	91.2	0.3	93.6	95.5	2.0	75 - 125	20	
Cobalt	BRL	0.001	<0.001	<0.001	NC	94.9	94.5	0.4	96.0	97.8	1.9	75 - 125	20	
Copper	BRL	0.005	0.002	0.001	NC	94.0	91.9	2.3	97.0	99.4	2.4	75 - 125	20	
Iron	BRL	0.011	0.013	0.013	NC	95.2	94.2	1.1	96.4	100	3.7	75 - 125	20	
Lead	BRL	0.002	0.003	0.003	NC	91.6	91.9	0.3	92.8	94.3	1.6	75 - 125	20	
Magnesium	BRL	0.01	18.4	18.3	0.50	95.7	95.2	0.5	NC	NC	NC	75 - 125	20	
Manganese	BRL	0.001	0.083	0.084	1.20	93.4	92.4	1.1	94.2	96.3	2.2	75 - 125	20	
Nickel	BRL	0.001	<0.001	0.001	NC	91.5	91.0	0.5	91.7	93.1	1.5	75 - 125	20	
Potassium	BRL	0.1	3.9	3.9	0	97.9	94.7	3.3	107	106	0.9	75 - 125	20	
Silver	BRL	0.001	<0.005	<0.001	NC	92.2	90.8	1.5	94.7	95.2	0.5	75 - 125	20	
Sodium	BRL	0.11	50.1	49.6	1.00	100	98.3	1.7	NC	NC	NC	75 - 125	20	
Vanadium	BRL	0.002	0.001	<0.002	NC	92.4	90.3	2.3	94.5	95.1	0.6	75 - 125	20	
Zinc	BRL	0.002	0.002	0.001	NC	91.3	91.1	0.2	93.6	95.5	2.0	75 - 125	20	

QA/QC Data

SDG I.D.: GBK52631

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 332326 (mg/L), QC Sample No: BK52617 (BK52631, BK52632, BK52633, BK52634, BK52635)													
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0003	NC	101	102	1.0	100	107	6.8	70 - 130	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 332109 (mg/L), QC Sample No: BK52618 (BK52631, BK52632, BK52633, BK52634, BK52635)													
Selenium (Dissolved)	BRL	0.002	<0.002	<0.002	NC	115	119	3.4	114	115	0.9	75 - 125	20
Thallium (Dissolved)	BRL	0.002	<0.0005	<0.002	NC	115	113	1.8	89.9	94.1	4.6	75 - 125	20
QA/QC Batch 332254 (mg/L), QC Sample No: BK52846 (BK52631, BK52633)													
ICP Metals - Dissolved													
Aluminum	BRL	0.011	<0.011	0.039	NC	86.7	79.4	8.8	91.7	93.1	1.5	75 - 125	20
Antimony	BRL	0.005	<0.005	<0.005	NC	90.7	87.7	3.4	86.1	87.4	1.5	75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	88.3	86.2	2.4	86.5	87.2	0.8	75 - 125	20
Barium	BRL	0.002	0.034	0.033	3.00	95.0	88.2	7.4	89.3	88.2	1.2	75 - 125	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	97.7	91.7	6.3	93.1	92.9	0.2	75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	91.5	89.9	1.8	88.0	89.8	2.0	75 - 125	20
Calcium	0.02	0.01	26.8	26.5	1.10	90.2	85.5	5.4	NC	NC	NC	75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	90.1	88.2	2.1	86.9	89.3	2.7	75 - 125	20
Cobalt	BRL	0.001	<0.001	<0.001	NC	93.3	91.6	1.8	89.7	91.9	2.4	75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	89.7	83.0	7.8	85.6	86.2	0.7	75 - 125	20
Iron	BRL	0.011	22.2	21.9	1.40	92.5	90.8	1.9	NC	NC	NC	75 - 125	20
Lead	BRL	0.002	0.007	0.007	NC	89.3	88.1	1.4	89.3	90.2	1.0	75 - 125	20
Magnesium	BRL	0.01	8.04	7.90	1.80	94.5	93.4	1.2	NC	NC	NC	75 - 125	20
Manganese	BRL	0.001	3.49	3.21	8.40	91.1	90.2	1.0	81.4	91.5	11.7	75 - 125	20
Nickel	BRL	0.001	<0.001	0.012	NC	89.6	87.8	2.0	85.9	87.7	2.1	75 - 125	20
Potassium	BRL	0.1	1.9	1.8	5.40	87.7	79.8	9.4	83.5	80.9	3.2	75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	89.4	84.5	5.6	86.3	86.7	0.5	75 - 125	20
Sodium	BRL	0.11	66.7	64.7	3.00	88.6	80.2	10.0	NC	NC	NC	75 - 125	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	90.3	85.4	5.6	87.3	87.8	0.6	75 - 125	20
Zinc	BRL	0.002	0.003	0.003	NC	89.6	87.8	2.0	87.1	89.2	2.4	75 - 125	20
QA/QC Batch 332266 (mg/L), QC Sample No: BK53118 (BK52631, BK52632, BK52633, BK52634, BK52635)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	107	109	1.9	105	99.1	5.8	70 - 130	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													

m = This parameter is outside laboratory MS/MSD specified recovery limits.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

QA/QC Report

January 23, 2016

QA/QC Data

SDG I.D.: GBK52631

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 332101 (mg/L), QC Sample No: BK52471 (BK52631, BK52632, BK52633, BK52634, BK52635)													
Chromium, Hexavalent	BRL	0.005	<0.005	<0.01	NC	97.0			106			70 - 130	20

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

January 23, 2016

QA/QC Data

SDG I.D.: GBK52631

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 331816 (ug/L), QC Sample No: BK51870 (BK52631, BK52632, BK52633, BK52634, BK52635)										
Polychlorinated Biphenyls - Ground Water										
PCB-1016	ND	0.050	85	83	2.4				40 - 140	20
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	75	81	7.7				40 - 140	20
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	47	%	106	93	13.1				30 - 150	20
% TCMX (Surrogate Rec)	40	%	82	84	2.4				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 332059 (ug/L), QC Sample No: BK52617 (BK52631, BK52632, BK52633, BK52634, BK52635)										
Semivolatiles (SIM) - Ground Water										
1,2,4,5-Tetrachlorobenzene	ND	0.50	59						30 - 130	20
2-Methylnaphthalene	ND	0.02	57						30 - 130	20
Acenaphthene	ND	0.02	85						30 - 130	20
Acenaphthylene	ND	0.02	87						30 - 130	20
Anthracene	ND	0.02	106						30 - 130	20
Benz(a)anthracene	ND	0.02	96						30 - 130	20
Benzo(a)pyrene	ND	0.02	97						30 - 130	20
Benzo(b)fluoranthene	ND	0.02	104						30 - 130	20
Benzo(ghi)perylene	ND	0.02	115						30 - 130	20
Benzo(k)fluoranthene	ND	0.02	100						30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	0.10	98						30 - 130	20
Chrysene	ND	0.02	99						30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	123						30 - 130	20
Fluoranthene	ND	0.02	107						30 - 130	20
Fluorene	ND	0.02	97						30 - 130	20
Hexachlorobenzene	ND	0.02	95						30 - 130	20
Hexachlorobutadiene	ND	0.05	36						30 - 130	20
Hexachloroethane	ND	0.05	32						30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	114						30 - 130	20
Naphthalene	ND	0.02	43						30 - 130	20
Nitrobenzene	ND	0.05	44						30 - 130	20
Pentachloronitrobenzene	ND	0.10	100						30 - 130	20
Pentachlorophenol	ND	0.20	117						30 - 130	20
Phenanthrene	ND	0.02	95						30 - 130	20
Pyrene	ND	0.02	105						30 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Pyridine	ND	0.50	12						30 - 130	20	I
% 2,4,6-Tribromophenol	100	%	107						15 - 110	20	
% 2-Fluorobiphenyl	54	%	66						30 - 130	20	
% 2-Fluorophenol	31	%	26						15 - 110	20	
% Nitrobenzene-d5	42	%	43						30 - 130	20	
% Phenol-d5	41	%	35						15 - 110	20	
% Terphenyl-d14	110	%	106						30 - 130	20	

Comment:

LCSD not reported for this batch.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 332059 (ug/L), QC Sample No: BK52617 (BK52631, BK52632, BK52633, BK52634, BK52635)

Semivolatiles - Ground Water

1,2,4-Trichlorobenzene	ND	3.5	36						30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	30						30 - 130	20	
1,2-Diphenylhydrazine	ND	1.6	82						30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	28						30 - 130	20	I
1,4-Dichlorobenzene	ND	1.0	31						30 - 130	20	
2,4,5-Trichlorophenol	ND	1.0	96						30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	82						30 - 130	20	
2,4-Dichlorophenol	ND	1.0	57						30 - 130	20	
2,4-Dimethylphenol	ND	1.0	56						30 - 130	20	
2,4-Dinitrophenol	ND	1.0	75						30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	102						30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	94						30 - 130	20	
2-Chloronaphthalene	ND	3.5	65						30 - 130	20	
2-Chlorophenol	ND	1.0	33						30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	46						30 - 130	20	
2-Nitroaniline	ND	3.5	101						30 - 130	20	
2-Nitrophenol	ND	1.0	39						30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	54						30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	47						30 - 130	20	
3-Nitroaniline	ND	5.0	87						30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0	93						30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	90						30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	91						30 - 130	20	
4-Chloroaniline	ND	3.5	52						30 - 130	20	
4-Chlorophenyl phenyl ether	ND	1.0	91						30 - 130	20	
4-Nitroaniline	ND	5.0	86						30 - 130	20	
4-Nitrophenol	ND	1.0	102						15 - 130	20	
Acetophenone	ND	3.5	45						30 - 130	20	
Aniline	ND	3.5	19						30 - 130	20	I
Benzidine	ND	4.5	<10						30 - 130	20	I
Benzoic acid	ND	10	72						30 - 130	20	
Benzyl butyl phthalate	ND	1.5	85						30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.5	46						30 - 130	20	
Bis(2-chloroethyl)ether	ND	1.0	32						30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	1.0	30						30 - 130	20	
Carbazole	ND	5.0	97						30 - 130	20	
Dibenzofuran	ND	3.5	84						30 - 130	20	
Diethyl phthalate	ND	1.5	100						30 - 130	20	
Dimethylphthalate	ND	1.5	93						30 - 130	20	

QA/QC Data

SDG I.D.: GBK52631

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Di-n-butylphthalate	ND	1.5	101						30 - 130	20
Di-n-octylphthalate	ND	1.5	91						30 - 130	20
Hexachlorocyclopentadiene	ND	3.5	14						30 - 130	20
Isophorone	ND	3.5	54						30 - 130	20
N-Nitrosodimethylamine	ND	1.0	22						30 - 130	20
N-Nitrosodi-n-propylamine	ND	3.5	53						30 - 130	20
N-Nitrosodiphenylamine	ND	3.5	100						30 - 130	20
Phenol	ND	1.0	35						15 - 130	20
% 2,4,6-Tribromophenol	73	%	81						15 - 110	20
% 2-Fluorobiphenyl	46	%	61						30 - 130	20
% 2-Fluorophenol	23	%	21						15 - 110	20
% Nitrobenzene-d5	31	%	40						30 - 130	20
% Phenol-d5	29	%	32						15 - 110	20
% Terphenyl-d14	86	%	118						30 - 130	20

Comment:

LCSD not reported for this batch.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 332111 (ug/L), QC Sample No: BK52631 (BK52631, BK52632, BK52633, BK52634, BK52635)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	93	80	15.0				40 - 140	20
4,4' -DDE	ND	0.003	89	76	15.8				40 - 140	20
4,4' -DDT	ND	0.003	81	71	13.2				40 - 140	20
a-BHC	ND	0.002	85	74	13.8				40 - 140	20
a-Chlordane	ND	0.005	89	77	14.5				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20
Aldrin	ND	0.002	76	65	15.6				40 - 140	20
b-BHC	ND	0.002	87	75	14.8				40 - 140	20
Chlordane	ND	0.050	85	73	15.2				40 - 140	20
d-BHC	ND	0.005	68	60	12.5				40 - 140	20
Dieldrin	ND	0.002	92	79	15.2				40 - 140	20
Endosulfan I	ND	0.005	89	78	13.2				40 - 140	20
Endosulfan II	ND	0.005	89	78	13.2				40 - 140	20
Endosulfan sulfate	ND	0.005	82	75	8.9				40 - 140	20
Endrin	ND	0.005	82	71	14.4				40 - 140	20
Endrin aldehyde	ND	0.005	91	78	15.4				40 - 140	20
Endrin ketone	ND	0.005	94	83	12.4				40 - 140	20
g-BHC	ND	0.002	86	75	13.7				40 - 140	20
g-Chlordane	ND	0.005	85	73	15.2				40 - 140	20
Heptachlor	ND	0.005	83	72	14.2				40 - 140	20
Heptachlor epoxide	ND	0.005	87	75	14.8				40 - 140	20
Methoxychlor	ND	0.005	75	65	14.3				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	71	%	78	68	13.7				30 - 150	20
% TCMX	70	%	89	80	10.7				30 - 150	20

QA/QC Batch 332442 (ug/L), QC Sample No: BK53567 (BK52631 (2X) , BK52632 (2X) , BK52633 (5X) , BK52634, BK52635, BK52636)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	103	107	3.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	88	91	3.4				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	100	102	2.0				70 - 130	30

QA/QC Data

SDG I.D.: GBK52631

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,2-Trichloroethane	ND	1.0	93	94	1.1				70 - 130	30
1,1-Dichloroethane	ND	1.0	89	93	4.4				70 - 130	30
1,1-Dichloroethene	ND	1.0	84	86	2.4				70 - 130	30
1,1-Dichloropropene	ND	1.0	90	92	2.2				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	120	126	4.9				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	99	102	3.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	123	128	4.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	105	108	2.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	110	116	5.3				70 - 130	30
1,2-Dibromoethane	ND	1.0	103	106	2.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	108	112	3.6				70 - 130	30
1,2-Dichloroethane	ND	1.0	97	99	2.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	93	96	3.2				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	104	106	1.9				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	107	109	1.9				70 - 130	30
1,3-Dichloropropane	ND	1.0	99	102	3.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	106	109	2.8				70 - 130	30
2,2-Dichloropropane	ND	1.0	98	100	2.0				70 - 130	30
2-Chlorotoluene	ND	1.0	101	105	3.9				70 - 130	30
2-Hexanone	ND	5.0	88	93	5.5				70 - 130	30
2-Isopropyltoluene	ND	1.0	106	109	2.8				70 - 130	30
4-Chlorotoluene	ND	1.0	102	102	0.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	90	92	2.2				70 - 130	30
Acetone	ND	5.0	67	69	2.9				70 - 130	30
Acrylonitrile	ND	5.0	88	98	10.8				70 - 130	30
Benzene	ND	0.70	91	95	4.3				70 - 130	30
Bromobenzene	ND	1.0	102	106	3.8				70 - 130	30
Bromochloromethane	ND	1.0	92	96	4.3				70 - 130	30
Bromodichloromethane	ND	0.50	98	103	5.0				70 - 130	30
Bromoform	ND	1.0	104	112	7.4				70 - 130	30
Bromomethane	ND	1.0	123	131	6.3				70 - 130	30
Carbon Disulfide	ND	1.0	88	91	3.4				70 - 130	30
Carbon tetrachloride	ND	1.0	85	90	5.7				70 - 130	30
Chlorobenzene	ND	1.0	99	103	4.0				70 - 130	30
Chloroethane	ND	1.0	91	93	2.2				70 - 130	30
Chloroform	ND	1.0	91	94	3.2				70 - 130	30
Chloromethane	ND	1.0	94	95	1.1				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	93	95	2.1				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	98	101	3.0				70 - 130	30
Dibromochloromethane	ND	0.50	105	112	6.5				70 - 130	30
Dibromomethane	ND	1.0	90	94	4.3				70 - 130	30
Dichlorodifluoromethane	ND	1.0	75	77	2.6				70 - 130	30
Ethylbenzene	ND	1.0	99	103	4.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	110	114	3.6				70 - 130	30
Isopropylbenzene	ND	1.0	97	101	4.0				70 - 130	30
m&p-Xylene	ND	1.0	100	103	3.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	87	92	5.6				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	105	110	4.7				70 - 130	30
Methylene chloride	ND	1.0	89	93	4.4				70 - 130	30
Naphthalene	ND	1.0	123	132	7.1				70 - 130	30
n-Butylbenzene	ND	1.0	104	107	2.8				70 - 130	30
n-Propylbenzene	ND	1.0	97	100	3.0				70 - 130	30
o-Xylene	ND	1.0	103	107	3.8				70 - 130	30

QA/QC Data

SDG I.D.: GBK52631

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
p-Isopropyltoluene	ND	1.0	107	109	1.9				70 - 130	30
sec-Butylbenzene	ND	1.0	103	104	1.0				70 - 130	30
Styrene	ND	1.0	105	108	2.8				70 - 130	30
tert-Butylbenzene	ND	1.0	101	103	2.0				70 - 130	30
Tetrachloroethene	ND	1.0	87	91	4.5				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	89	96	7.6				70 - 130	30
Toluene	ND	1.0	92	94	2.2				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	91	93	2.2				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	100	103	3.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	119	122	2.5				70 - 130	30
Trichloroethene	ND	1.0	94	97	3.1				70 - 130	30
Trichlorofluoromethane	ND	1.0	77	79	2.6				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	80	82	2.5				70 - 130	30
Vinyl chloride	ND	1.0	83	89	7.0				70 - 130	30
% 1,2-dichlorobenzene-d4	103	%	103	104	1.0				70 - 130	30
% Bromofluorobenzene	97	%	101	103	2.0				70 - 130	30
% Dibromofluoromethane	101	%	102	105	2.9				70 - 130	30
% Toluene-d8	101	%	101	101	0.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
January 23, 2016

Criteria: NY: 375GWP, GW

State: NY

Sample Criteria Exceedences Report

GBK52631 - HYDROBRO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK52631	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52631	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BK52631	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52631	$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52631	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52631	$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.06	0.06	ug/L
BK52631	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.126	0.010	0.1	0.1	mg/L
BK52631	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.321	0.001	0.3	0.3	mg/L
BK52631	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	52.5	0.11	20	20	mg/L
BK52631	D-SB	Antimony (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.008	0.003	0.003	0.003	mg/L
BK52631	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	42.3	0.1	20	20	mg/L
BK52631	PB-WM	Lead	NY / TOGS - Water Quality / GA Criteria	0.027	0.002	0.025	0.025	mg/L
BK52631	SB-WM	Antimony	NY / TOGS - Water Quality / GA Criteria	0.010	0.003	0.003	0.003	mg/L
BK52632	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52632	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52632	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BK52632	$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52632	$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52632	$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.06	0.06	ug/L
BK52632	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.533	0.001	0.3	0.3	mg/L
BK52632	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	52.5	0.11	20	20	mg/L
BK52632	D-SB	Antimony (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.009	0.003	0.003	0.003	mg/L
BK52632	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	2.85	0.010	0.3	0.3	mg/L

Sample Criteria Exceedences Report

GBK52631 - HYDROBRO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK52632	MN-WM	Manganese	NY / TOGS - Water Quality / GA Criteria	0.973	0.001	0.3	0.3	mg/L
BK52632	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	51.1	1.0	20	20	mg/L
BK52633	$8260GWR	Benzene	NY / TAGM - Volatile Organics / Groundwater Standards	ND	1.0	0.7	0.7	ug/L
BK52633	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	2.5	0.04	0.04	ug/L
BK52633	$8260GWR	cis-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BK52633	$8260GWR	trans-1,3-Dichloropropene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.4	0.4	ug/L
BK52633	$8260GWR	Acrylonitrile	NY / TOGS - Water Quality / GA Criteria	ND	13	5	5	ug/L
BK52633	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BK52633	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52633	$8260GWR	1,2-Dichloroethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.6	0.6	ug/L
BK52633	$8270-SIMR	Pentachlorophenol	NY / TAGM - Semi-Volatiles / Groundwater Standards	1.4	0.80	1	1	ug/L
BK52633	$8270-SIMR	Pentachlorophenol	NY / TOGS - Water Quality / GA Criteria	1.4	0.80	1	1	ug/L
BK52633	$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.17	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	0.17	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.15	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	0.15	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.13	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.13	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.14	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	0.14	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.15	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	0.09	0.02	0.002	0.002	ug/L
BK52633	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	0.09	0.02	0.002	0.002	ug/L
BK52633	$PEST_GAWR	Heptachlor epoxide	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.050	0.01	0.01	ug/L
BK52633	$PEST_GAWR	4,4' -DDD	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.025	0.01	0.01	ug/L
BK52633	$PEST_GAWR	4,4' -DDE	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.025	0.01	0.01	ug/L
BK52633	$PEST_GAWR	4,4' -DDT	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.025	0.01	0.01	ug/L
BK52633	$PEST_GAWR	Aldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.015	0.01	0.01	ug/L
BK52633	$PEST_GAWR	Chlordane	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	0.61	0.50	0.1	0.1	ug/L
BK52633	$PEST_GAWR	Heptachlor	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.050	0.01	0.01	ug/L
BK52633	$PEST_GAWR	Dieldrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.015	0.01	0.01	ug/L
BK52633	$PEST_GAWR	Endrin	NY / TAGM - Pest/Herb/PCBs / Groundwater Standards	ND	0.050	0.01	0.01	ug/L
BK52633	$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	10	0.06	0.06	ug/L
BK52633	$PEST_GAWR	Heptachlor	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.04	0.04	ug/L
BK52633	$PEST_GAWR	d-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.04	0.04	ug/L
BK52633	$PEST_GAWR	a-BHC	NY / TOGS - Water Quality / GA Criteria	ND	0.025	0.01	0.01	ug/L
BK52633	$PEST_GAWR	Chlordane	NY / TOGS - Water Quality / GA Criteria	0.61	0.50	0.05	0.05	ug/L
BK52633	$PEST_GAWR	Heptachlor epoxide	NY / TOGS - Water Quality / GA Criteria	ND	0.050	0.03	0.03	ug/L
BK52633	$PEST_GAWR	Alachlor	NY / TOGS - Water Quality / GA Criteria	ND	0.75	0.5	0.5	ug/L
BK52633	$PEST_GAWR	Dieldrin	NY / TOGS - Water Quality / GA Criteria	ND	0.015	0.004	0.004	ug/L
BK52633	AL-WM	Aluminum	NY / TOGS - Water Quality / GA Criteria	0.994	0.010	0.1	0.1	mg/L

Sample Criteria Exceedences Report

GBK52631 - HYDROBRO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK52633	D-MN	Manganese (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.428	0.001	0.3	0.3	mg/L
BK52633	D-NA	Sodium (Dissolved)	NY / TOGS - Water Quality / GA Criteria	52.1	0.11	20	20	mg/L
BK52633	D-SB	Antimony (Dissolved)	NY / TOGS - Water Quality / GA Criteria	0.009	0.003	0.003	0.003	mg/L
BK52633	FE-WM	Iron	NY / TOGS - Water Quality / GA Criteria	1.10	0.010	0.3	0.3	mg/L
BK52633	MG-WM	Magnesium	NY / TOGS - Water Quality / GA Criteria	69.5	0.01	35	35	mg/L
BK52633	NA-WM	Sodium	NY / TOGS - Water Quality / GA Criteria	80.5	1.0	20	20	mg/L
BK52634	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52634	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52634	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BK52634	$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52634	$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52634	$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.06	0.06	ug/L
BK52635	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52635	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BK52635	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52635	$8270-SIMR	Benzo(k)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Benz(a)anthracene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Chrysene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Benzo(b)fluoranthene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Benzo(a)pyrene	NY / TAGM - Semi-Volatiles / Groundwater Standards	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Benzo(b)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Benzo(k)fluoranthene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Chrysene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Indeno(1,2,3-cd)pyrene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52635	$8270-SIMR	Benz(a)anthracene	NY / TOGS - Water Quality / GA Criteria	ND	0.02	0.002	0.002	ug/L
BK52635	$PEST_GAWR	Toxaphene	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.06	0.06	ug/L
BK52636	$8260GWR	1,2-Dibromoethane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.0006	0.0006	ug/L
BK52636	$8260GWR	1,2,3-Trichloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L
BK52636	$8260GWR	1,2-Dibromo-3-chloropropane	NY / TOGS - Water Quality / GA Criteria	ND	1.0	0.04	0.04	ug/L

Sample Criteria Exceedences Report

GBK52631 - HYDROBRO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY Temperature Narration

January 23, 2016

SDG I.D.: GBK52631

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

Temp 4 °C Pg 1 of 1

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone:
[■] Email: Andrew@hydrotechenvironmental.com

Customer: Hydro Tech Environmental, Corp.
Address: 15 Ocean Avenue, 2nd Floor
Brooklyn, New York 11225

Project: 150299
Report to: AJ Infante, Andrew@hydrotechenvironmental.com
Invoice to: Muslima Ward, Mward@hydrotechenvironmental.com

Project P.O: 150299

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/12/16

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	SVOCs	Restricted	PCBs	TAL Metals (Filtered)	TAL Metals (unfiltered)	Hex. chrom. / Tri chrom.					Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [X] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
52631	MW-1	GW	1/12/2016	13:10	X	X	X	X	X	X	X								3	4	1		1		
52632	MW-2	GW	1/12/2016	12:05	X	X	X	X	X	X	X								3	4	1		1		
52633	MW-3	GW	1/12/2016	10:45	X	X	X	X	X	X	X								3	4	1		1		
52634	Field blank-1	GW	1/12/2016	13 30	X	X	X	X	X	X	X								3	4	1		1		
52635	Fieldblank-2	GW	1/12/2016	13:40	X	X	X	X	X	X	X								3	4	1		1		
52636	Triplblank-1	GW	1/12/2016		X														3						

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1-13-16	10:15
[signature]	Charbone	1-13-16	1642

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[■] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[■] NY 375 GWP
[ ] NY375 Unrestricted Use Soil
[ ] NY375 Residential Soil
[ ] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[■] Phoenix Std Report
[■] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[ ] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]
Temp 4 °C Pg 1 of 1

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
[ ] Fax:
[ ] Phone:
[■] Email: Andrew@hydrotechenvironmental.com

Customer: Hydro Tech Environmental, Corp.
Address: 15 Ocean Avenue, 2nd Floor
Brooklyn, New York 11225

Project: 150299
Report to: AJ Infante, Andrew@hydrotechenvironmental.com
Invoice to: Muslima Ward, Mward@hydrotechenvironmental.com

Project P.O: 150299

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 1/12/16

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	SVOCs	Pesticides	PCBs	TAL Metals (Filtered)	TAL Metals (unfiltered)	Hex. chrom. / Tri chrom.					Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [X] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
52631	MW-1	GW	1/12/2016	13:10	X	X	X	X	X	X	X								3	4	1		1		
52632	MW-2	GW	1/12/2016	12:05	X	X	X	X	X	X	X								3	4	1		1		
52633	MW-3	GW	1/12/2016	10:45	X	X	X	X	X	X	X								3	4	1		1		
52634	Field blank-1	GW	1/12/2016	13:30	X	X	X	X	X	X	X								3	4	1		1		
52635	Fieldblank-2	GW	1/12/2016	13:40	X	X	X	X	X	X	X								3	4	1		1		
52636	Tripblank-1	GW	1/12/2016		X														3						

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	1-13-16	10:15
[signature]	CPaulsone	1-13-16	1642

Comments, Special Requirements or Regulations:

All samples rec'd past holding time for Hex cr. Emailed client 1-14-16 (SW)

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[■] 5 Days
[ ] 10 Days
[ ] Other
* SURCHARGE APPLIES

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] GW Criteria

NY
[■] NY 375 GWP
[ ] NY375 Unrestricted Use Soil
[ ] NY375 Residential Soil
[ ] Restricted/Residential
[ ] Commercial
[ ] Industrial

Data Format
[■] Phoenix Std Report
[■] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] NJ Hazsite EDD
[ ] NY EZ EDD (ASP)
[ ] Other

Data Package
[ ] NJ Reduced Deliv. *
[ ] NY Enhanced (ASP B) *
[ ] Other

State where samples were collected: NY

GBK 52631

Shannon - Phoenixlabs

From: Andrew Infante [Andrew@hydrotechenvironmental.com]
Sent: Thursday, January 14, 2016 01:01 PM
To: Shannon - Phoenixlabs
Subject: RE: Hexcr analysis

Hi Shannon,

Yes, please analyze. Thank you.

A.J. Infante | Project Geologist
Hydro Tech Environmental, Corp.
15 Ocean Avenue, Suite 2B, Brooklyn, NY 11225
Tel: (718) 636-0800 Fax: (718) 636-0900 Cell: (631) 457-0033
Email: andrew@hydrotechenvironmental.com

From: Shannon - Phoenixlabs [mailto:shannon@phoenixlabs.com]
Sent: Thursday, January 14, 2016 12:59 PM
To: Andrew Infante <Andrew@hydrotechenvironmental.com>
Subject: Hexcr analysis
Importance: High

Hi Andrew,
Please see attached regarding samples received yesterday. The Hex Chrom only has a 24 hr holding time so these were received at the lab past holding time. Would you still like us to report them? Please let me know. Thank you.

Shannon Wilhelm
Phoenix Environmental Labs

J. Soil Vapor Analytical Report

PHOENIX
Environmental Laboratories, Inc.

Thursday, January 14, 2016

Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Project ID: 150299
Sample ID#s: BK51401 - BK51403

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

January 14, 2016

SDG I.D.: GBK51401

Version 1: Analysis results minus QC and forms.

Version 2: Complete report with QC and forms.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 14, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	AJI	01/11/16	13:07
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	479				

Laboratory Data

SDG ID: GBK51401
Phoenix ID: BK51401

Project ID: 150299
Client ID: SV-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	01/13/16	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2,4-Trimethylbenzene	0.677	*0.204*	0.204	3.33	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	01/13/16	KCA	1	
1,3,5-Trimethylbenzene	0.578	*0.204*	0.204	2.84	*1.00*	1.00	01/13/16	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	01/13/16	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	01/13/16	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	01/13/16	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	01/13/16	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	01/13/16	KCA	1	1
4-Ethyltoluene	0.550	*0.204*	0.204	2.70	*1.00*	1.00	01/13/16	KCA	1	1
4-Isopropyltoluene	0.243	*0.182*	0.182	1.33	*1.00*	1.00	01/13/16	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	01/13/16	KCA	1	
Acetone	30.3	*0.421*	0.421	71.9	*1.00*	1.00	01/13/16	KCA	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	01/13/16	KCA	1	
Benzene	6.35	*0.313*	0.313	20.3	*1.00*	1.00	01/13/16	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	01/13/16	KCA	1	

Project ID: 150299
Client ID: SV-1

Phoenix I.D.: BK51401

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND	*0.149*	0.149	ND	*1.00*	1.00	01/13/16	KCA	1	
Bromoform	ND	*0.097*	0.097	ND	*1.00*	1.00	01/13/16	KCA	1	
Bromomethane	ND	*0.258*	0.258	ND	*1.00*	1.00	01/13/16	KCA	1	
Carbon Disulfide	5.84	*0.321*	0.321	18.2	*1.00*	1.00	01/13/16	KCA	1	
Carbon Tetrachloride	0.064	*0.040*	0.040	0.40	*0.25*	0.25	01/13/16	KCA	1	
Chlorobenzene	ND	*0.217*	0.217	ND	*1.00*	1.00	01/13/16	KCA	1	
Chloroethane	ND	*0.379*	0.379	ND	*1.00*	1.00	01/13/16	KCA	1	
Chloroform	0.681	*0.205*	0.205	3.32	*1.00*	1.00	01/13/16	KCA	1	
Chloromethane	5.63	*0.485*	0.485	11.6	*1.00*	1.00	01/13/16	KCA	1	
Cis-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	01/13/16	KCA	1	
cis-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	01/13/16	KCA	1	
Cyclohexane	33.9	*0.291*	0.291	117	*1.00*	1.00	01/13/16	KCA	1	
Dibromochloromethane	ND	*0.118*	0.118	ND	*1.00*	1.00	01/13/16	KCA	1	
Dichlorodifluoromethane	0.315	*0.202*	0.202	1.56	*1.00*	1.00	01/13/16	KCA	1	
Ethanol	303	*5.31*	5.31	571	*10.0*	10.0	01/13/16	KCA	10	1
Ethyl acetate	ND	*0.278*	0.278	ND	*1.00*	1.00	01/13/16	KCA	1	1
Ethylbenzene	2.83	*0.230*	0.230	12.3	*1.00*	1.00	01/13/16	KCA	1	
Heptane	84.8	*2.44*	2.44	347	*10.0*	10.0	01/13/16	KCA	10	
Hexachlorobutadiene	ND	*0.094*	0.094	ND	*1.00*	1.00	01/13/16	KCA	1	
Hexane	19.0	*0.284*	0.284	66.9	*1.00*	1.00	01/13/16	KCA	1	
Isopropylalcohol	3.79	S *0.407*	0.407	9.31	*1.00*	1.00	01/13/16	KCA	1	
Isopropylbenzene	0.758	*0.204*	0.204	3.72	*1.00*	1.00	01/13/16	KCA	1	
m,p-Xylene	7.53	*0.230*	0.230	32.7	*1.00*	1.00	01/13/16	KCA	1	
Methyl Ethyl Ketone	17.1	*0.339*	0.339	50.4	*1.00*	1.00	01/13/16	KCA	1	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	0.278	ND	*1.00*	1.00	01/13/16	KCA	1	
Methylene Chloride	ND	*0.288*	0.288	ND	*1.00*	1.00	01/13/16	KCA	1	
n-Butylbenzene	ND	*0.182*	0.182	ND	*1.00*	1.00	01/13/16	KCA	1	1
o-Xylene	4.14	*0.230*	0.230	18.0	*1.00*	1.00	01/13/16	KCA	1	
Propylene	95.7	*5.81*	5.81	165	*10.0*	10.0	01/13/16	KCA	10	1
sec-Butylbenzene	0.410	*0.182*	0.182	2.25	*1.00*	1.00	01/13/16	KCA	1	1
Styrene	0.469	*0.235*	0.235	2.00	*1.00*	1.00	01/13/16	KCA	1	
Tetrachloroethene	0.098	*0.037*	0.037	0.66	*0.25*	0.25	01/13/16	KCA	1	
Tetrahydrofuran	ND	*0.339*	0.339	ND	*1.00*	1.00	01/13/16	KCA	1	1
Toluene	10.5	*0.266*	0.266	39.5	*1.00*	1.00	01/13/16	KCA	1	
Trans-1,2-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	01/13/16	KCA	1	
trans-1,3-Dichloropropene	ND	*0.221*	0.221	ND	*1.00*	1.00	01/13/16	KCA	1	
Trichloroethene	0.049	*0.047*	0.047	0.26	*0.25*	0.25	01/13/16	KCA	1	
Trichlorofluoromethane	1.70	*0.178*	0.178	9.5	*1.00*	1.00	01/13/16	KCA	1	
Trichlorotrifluoroethane	ND	*0.131*	0.131	ND	*1.00*	1.00	01/13/16	KCA	1	
Vinyl Chloride	ND	*0.098*	0.098	ND	*0.25*	0.25	01/13/16	KCA	1	
QA/QC Surrogates										
% Bromofluorobenzene	114	%	%	114	%	%	01/13/16	KCA	1	

Project ID: 150299
Client ID: SV-1

Phoenix I.D.: BK51401

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 14, 2016

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 14, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	AJI	01/11/16	13:02
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	13642				

Laboratory Data

SDG ID: GBK51401
Phoenix ID: BK51402

Project ID: 150299
Client ID: SV-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	01/13/16	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2,4-Trimethylbenzene	0.534	*0.204*	0.204	2.62	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	01/13/16	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	01/13/16	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	01/13/16	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	01/13/16	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	01/13/16	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	01/13/16	KCA	1	
2-Hexanone(MBK)	0.390	*0.244*	0.244	1.60	*1.00*	1.00	01/13/16	KCA	1	1
4-Ethyltoluene	0.219	*0.204*	0.204	1.08	*1.00*	1.00	01/13/16	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	0.182	ND	*1.00*	1.00	01/13/16	KCA	1	1
4-Methyl-2-pentanone(MIBK)	0.285	*0.244*	0.244	1.17	*1.00*	1.00	01/13/16	KCA	1	
Acetone	9.91	*0.421*	0.421	23.5	*1.00*	1.00	01/13/16	KCA	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	01/13/16	KCA	1	
Benzene	0.983	*0.313*	0.313	3.14	*1.00*	1.00	01/13/16	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	01/13/16	KCA	1	

Project ID: 150299
Client ID: SV-2

Phoenix I.D.: BK51402

Parameter	ppbv Result		ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	0.149	ND	*1.00*	1.00	01/13/16	KCA	1	
Bromoform	ND		*0.097*	0.097	ND	*1.00*	1.00	01/13/16	KCA	1	
Bromomethane	ND		*0.258*	0.258	ND	*1.00*	1.00	01/13/16	KCA	1	
Carbon Disulfide	1.44		*0.321*	0.321	4.48	*1.00*	1.00	01/13/16	KCA	1	
Carbon Tetrachloride	0.079		*0.040*	0.040	0.50	*0.25*	0.25	01/13/16	KCA	1	
Chlorobenzene	ND		*0.217*	0.217	ND	*1.00*	1.00	01/13/16	KCA	1	
Chloroethane	ND		*0.379*	0.379	ND	*1.00*	1.00	01/13/16	KCA	1	
Chloroform	0.478		*0.205*	0.205	2.33	*1.00*	1.00	01/13/16	KCA	1	
Chloromethane	ND		*0.485*	0.485	ND	*1.00*	1.00	01/13/16	KCA	1	
Cis-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	01/13/16	KCA	1	
cis-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	01/13/16	KCA	1	
Cyclohexane	ND		*0.291*	0.291	ND	*1.00*	1.00	01/13/16	KCA	1	
Dibromochloromethane	ND		*0.118*	0.118	ND	*1.00*	1.00	01/13/16	KCA	1	
Dichlorodifluoromethane	ND		*0.202*	0.202	ND	*1.00*	1.00	01/13/16	KCA	1	
Ethanol	3.57	S	*0.531*	0.531	6.72	*1.00*	1.00	01/13/16	KCA	1	1
Ethyl acetate	ND		*0.278*	0.278	ND	*1.00*	1.00	01/13/16	KCA	1	1
Ethylbenzene	0.785		*0.230*	0.230	3.41	*1.00*	1.00	01/13/16	KCA	1	
Heptane	0.261		*0.244*	0.244	1.07	*1.00*	1.00	01/13/16	KCA	1	
Hexachlorobutadiene	ND		*0.094*	0.094	ND	*1.00*	1.00	01/13/16	KCA	1	
Hexane	ND		*0.284*	0.284	ND	*1.00*	1.00	01/13/16	KCA	1	
Isopropylalcohol	1.74	S	*0.407*	0.407	4.27	*1.00*	1.00	01/13/16	KCA	1	
Isopropylbenzene	ND		*0.204*	0.204	ND	*1.00*	1.00	01/13/16	KCA	1	
m,p-Xylene	3.00		*0.230*	0.230	13.0	*1.00*	1.00	01/13/16	KCA	1	
Methyl Ethyl Ketone	2.63		*0.339*	0.339	7.75	*1.00*	1.00	01/13/16	KCA	1	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	0.278	ND	*1.00*	1.00	01/13/16	KCA	1	
Methylene Chloride	ND		*0.288*	0.288	ND	*1.00*	1.00	01/13/16	KCA	1	
n-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	01/13/16	KCA	1	1
o-Xylene	1.07		*0.230*	0.230	4.64	*1.00*	1.00	01/13/16	KCA	1	
Propylene	17.3		*0.581*	0.581	29.8	*1.00*	1.00	01/13/16	KCA	1	1
sec-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	01/13/16	KCA	1	1
Styrene	ND		*0.235*	0.235	ND	*1.00*	1.00	01/13/16	KCA	1	
Tetrachloroethene	0.096		*0.037*	0.037	0.65	*0.25*	0.25	01/13/16	KCA	1	
Tetrahydrofuran	ND		*0.339*	0.339	ND	*1.00*	1.00	01/13/16	KCA	1	1
Toluene	2.38		*0.266*	0.266	8.96	*1.00*	1.00	01/13/16	KCA	1	
Trans-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	01/13/16	KCA	1	
trans-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	01/13/16	KCA	1	
Trichloroethene	ND		*0.047*	0.047	ND	*0.25*	0.25	01/13/16	KCA	1	
Trichlorofluoromethane	2.07		*0.178*	0.178	11.6	*1.00*	1.00	01/13/16	KCA	1	
Trichlorotrifluoroethane	ND		*0.131*	0.131	ND	*1.00*	1.00	01/13/16	KCA	1	
Vinyl Chloride	ND		*0.098*	0.098	ND	*0.25*	0.25	01/13/16	KCA	1	
QA/QC Surrogates											
% Bromofluorobenzene	101		*%*	%	101	*%*	%	01/13/16	KCA	1	

Project ID: 150299
Client ID: SV-2

Phoenix I.D.: BK51402

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 14, 2016

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

January 14, 2016

FOR: Attn: AJ Infante
HydroTech Environmental Corp.
15 Ocean Avenue, 2nd Floor
Brooklyn, NY 11225

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	AJI	01/11/16	13:00
Location Code:	HYDROBRO	Received by:	SW	01/12/16	15:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					
Canister Id:	482				

Laboratory Data

SDG ID: GBK51401
Phoenix ID: BK51403

Project ID: 150299
Client ID: SV-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Volatiles (TO15)										
1,1,1,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	01/13/16	KCA	1	1
1,1,1-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1,2,2-Tetrachloroethane	ND	*0.146*	0.146	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1,2-Trichloroethane	ND	*0.183*	0.183	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	01/13/16	KCA	1	
1,1-Dichloroethene	ND	*0.252*	0.252	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2,4-Trichlorobenzene	ND	*0.135*	0.135	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2,4-Trimethylbenzene	0.295	*0.204*	0.204	1.45	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dibromoethane(EDB)	ND	*0.130*	0.130	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dichloroethane	ND	*0.247*	0.247	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-dichloropropane	ND	*0.217*	0.217	ND	*1.00*	1.00	01/13/16	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	0.143	ND	*1.00*	1.00	01/13/16	KCA	1	
1,3,5-Trimethylbenzene	ND	*0.204*	0.204	ND	*1.00*	1.00	01/13/16	KCA	1	
1,3-Butadiene	ND	*0.452*	0.452	ND	*1.00*	1.00	01/13/16	KCA	1	
1,3-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	01/13/16	KCA	1	
1,4-Dichlorobenzene	ND	*0.166*	0.166	ND	*1.00*	1.00	01/13/16	KCA	1	
1,4-Dioxane	ND	*0.278*	0.278	ND	*1.00*	1.00	01/13/16	KCA	1	
2-Hexanone(MBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	01/13/16	KCA	1	1
4-Ethyltoluene	ND	*0.204*	0.204	ND	*1.00*	1.00	01/13/16	KCA	1	1
4-Isopropyltoluene	ND	*0.182*	0.182	ND	*1.00*	1.00	01/13/16	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	0.244	ND	*1.00*	1.00	01/13/16	KCA	1	
Acetone	5.72	*0.421*	0.421	13.6	*1.00*	1.00	01/13/16	KCA	1	
Acrylonitrile	ND	*0.461*	0.461	ND	*1.00*	1.00	01/13/16	KCA	1	
Benzene	1.90	*0.313*	0.313	6.07	*1.00*	1.00	01/13/16	KCA	1	
Benzyl chloride	ND	*0.193*	0.193	ND	*1.00*	1.00	01/13/16	KCA	1	

Project ID: 150299
Client ID: SV-3

Phoenix I.D.: BK51403

Parameter	ppbv Result		ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution	
Bromodichloromethane	ND		*0.149*	0.149	ND	*1.00*	1.00	01/13/16	KCA	1	
Bromoform	ND		*0.097*	0.097	ND	*1.00*	1.00	01/13/16	KCA	1	
Bromomethane	ND		*0.258*	0.258	ND	*1.00*	1.00	01/13/16	KCA	1	
Carbon Disulfide	1.21		*0.321*	0.321	3.77	*1.00*	1.00	01/13/16	KCA	1	
Carbon Tetrachloride	0.059		*0.040*	0.040	0.37	*0.25*	0.25	01/13/16	KCA	1	
Chlorobenzene	ND		*0.217*	0.217	ND	*1.00*	1.00	01/13/16	KCA	1	
Chloroethane	ND		*0.379*	0.379	ND	*1.00*	1.00	01/13/16	KCA	1	
Chloroform	ND		*0.205*	0.205	ND	*1.00*	1.00	01/13/16	KCA	1	
Chloromethane	0.676		*0.485*	0.485	1.40	*1.00*	1.00	01/13/16	KCA	1	
Cis-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	01/13/16	KCA	1	
cis-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	01/13/16	KCA	1	
Cyclohexane	0.400		*0.291*	0.291	1.38	*1.00*	1.00	01/13/16	KCA	1	
Dibromochloromethane	ND		*0.118*	0.118	ND	*1.00*	1.00	01/13/16	KCA	1	
Dichlorodifluoromethane	0.417		*0.202*	0.202	2.06	*1.00*	1.00	01/13/16	KCA	1	
Ethanol	3.07	S	*0.531*	0.531	5.78	*1.00*	1.00	01/13/16	KCA	1	1
Ethyl acetate	ND		*0.278*	0.278	ND	*1.00*	1.00	01/13/16	KCA	1	1
Ethylbenzene	0.673		*0.230*	0.230	2.92	*1.00*	1.00	01/13/16	KCA	1	
Heptane	0.678		*0.244*	0.244	2.78	*1.00*	1.00	01/13/16	KCA	1	
Hexachlorobutadiene	ND		*0.094*	0.094	ND	*1.00*	1.00	01/13/16	KCA	1	
Hexane	1.09	S	*0.284*	0.284	3.84	*1.00*	1.00	01/13/16	KCA	1	
Isopropylalcohol	0.845	S	*0.407*	0.407	2.08	*1.00*	1.00	01/13/16	KCA	1	
Isopropylbenzene	ND		*0.204*	0.204	ND	*1.00*	1.00	01/13/16	KCA	1	
m,p-Xylene	2.17		*0.230*	0.230	9.42	*1.00*	1.00	01/13/16	KCA	1	
Methyl Ethyl Ketone	0.856		*0.339*	0.339	2.52	*1.00*	1.00	01/13/16	KCA	1	
Methyl tert-butyl ether(MTBE)	ND		*0.278*	0.278	ND	*1.00*	1.00	01/13/16	KCA	1	
Methylene Chloride	ND		*0.288*	0.288	ND	*1.00*	1.00	01/13/16	KCA	1	
n-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	01/13/16	KCA	1	1
o-Xylene	0.711		*0.230*	0.230	3.09	*1.00*	1.00	01/13/16	KCA	1	
Propylene	38.2		*1.16*	1.16	65.7	*2.00*	2.00	01/13/16	KCA	2	1
sec-Butylbenzene	ND		*0.182*	0.182	ND	*1.00*	1.00	01/13/16	KCA	1	1
Styrene	ND		*0.235*	0.235	ND	*1.00*	1.00	01/13/16	KCA	1	
Tetrachloroethene	0.037		*0.037*	0.037	0.25	*0.25*	0.25	01/13/16	KCA	1	
Tetrahydrofuran	ND		*0.339*	0.339	ND	*1.00*	1.00	01/13/16	KCA	1	1
Toluene	2.79		*0.266*	0.266	10.5	*1.00*	1.00	01/13/16	KCA	1	
Trans-1,2-Dichloroethene	ND		*0.252*	0.252	ND	*1.00*	1.00	01/13/16	KCA	1	
trans-1,3-Dichloropropene	ND		*0.221*	0.221	ND	*1.00*	1.00	01/13/16	KCA	1	
Trichloroethene	ND		*0.047*	0.047	ND	*0.25*	0.25	01/13/16	KCA	1	
Trichlorofluoromethane	0.292		*0.178*	0.178	1.64	*1.00*	1.00	01/13/16	KCA	1	
Trichlorotrifluoroethane	ND		*0.131*	0.131	ND	*1.00*	1.00	01/13/16	KCA	1	
Vinyl Chloride	ND		*0.098*	0.098	ND	*0.25*	0.25	01/13/16	KCA	1	
QA/QC Surrogates											
% Bromofluorobenzene	103		*%*	%	103	*%*	%	01/13/16	KCA	1	

Project ID: 150299
Client ID: SV-3

Phoenix I.D.: BK51403

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

S - Laboratory solvent, contamination is possible.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 14, 2016

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Criteria: NY: GW

State: NY

Sample Criteria Exceedences Report

GBK51401 - HYDROBRO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. # 150299 Page 1 of 1

Data Delivery:
- ☐ Fax #:
- ☒ Email: Andrew@hydrotechenvironmental.com
- ☐ Phone #:

Report to: A.J. Infante
Customer: Hydro Tech Env.
Address: 15 Ocean Ave Suite 2B Brooklyn, NY

Invoice to: Muslima Ward, 66 Arkay Drive, Suite G, Hauppauge, NY 11788

Sampled by: AJ Infante

Project Name: 150299

Requested Deliverable: RCP ☐ ASP CAT B ☒ MCP ☐ NJ Deliverables ☐

State where samples collected: NY

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
51401	SV-1	479	6.0	-30	-7	5039	41.7	11:07	13:07	1/11/16	-30	-9		X	G		X
51402	SV-2	13642	6.0	-30	-9	5710		11:02	13:02	1/11/16	-30	-9		X	G		X
51403	SV-3	482	6.0	-30	-1	3409		11:00	13:00	1/11/16	-30	-6		X	G		X
	6L 2hrs																

Relinquished by:	Accepted by:	Date:	Time:
		1-12-16	9:40
		1-12-16	15:18

Data Format: Excel ☒ Equis ☐ GISKey ☐ PDF ☒ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

Requested Criteria

Quote Number:

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document:

Signature: Date: 1/11/16