Phase II Subsurface Investigation

For

872 – 874 Willoughby Avenue
Brooklyn, NY 11221
Block 1593; Lot 23
NYC OER Project Number: 13EHAN379K

E-Designation: E-285

CEQR Number: 12DCP156Y

Bedford Stuyvesant North Rezoning

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LIST OF ACRONYMS

Acronym	Definition
AST	Aboveground Storage Tank
CAMP	Community Air Monitoring Plan
C&D	Construction & Demolition
CEQR	City Environmental Quality Review
CFR	Code of Federal Regulations
CHASP	Construction Health and Safety Plan
CO	Certificate of Occupancy
CPC	City Planning Commission
DSNY	Department of Sanitation
"E"	E-Designation
EAS	Environmental Assessment Statement
EIS	Environmental Impact Statement
ESA	Environmental Site Assessment
EC/IC	Engineering Control and Institutional Control
ELAP	Environmental Laboratory Accreditation Program
FDNY	New York City Fire Department
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations Emergency Response
IDW	Investigation Derived Waste
Notice - NNO	Notice of No Objection
Notice - NTP	Notice To Proceed
Notice - NOS	Notice Of Satisfaction
Notice - FNOS	Final Notice of Satisfaction
NYC BSA	New York City Board of Standards and Appeals
NYC DCP	New York City Department of City Planning
NYC DEP	New York City Department of Environmental Protection
NYC DOB	New York City Department of Buildings
NYC DOF	New York City Department of Finance
NYC HPD	New York City Housing Preservation and Development
NYCRR	New York Codes Rules and Regulations
NYC OER	New York City Office of Environmental Remediation

NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
NYS DEC PBS	New York State Department of Environmental Conservation Petroleum Bulk Storage
NYS DOH	New York State Department of Health
NYS DOT	New York State Department of Transportation
OSHA	United States Occupational Health and Safety Administration
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PE	Professional Engineer
PID	Photo Ionization Detector
PM	Particulate Matter
QEP	Qualified Environmental Professional
RA	Register Architect
RAP	Remedial Action Plan
RCA	Recycled Concrete Aggregate
RCR	Remedial Closure Report
RD	Restrictive Declaration
RI	Remedial Investigation
SCOs	Soil Cleanup Objectives
SCG	Standards, Criteria and Guidance
SMP	Site Management Plan
SPDES	State Pollutant Discharge Elimination System
SSDS	Sub-Slab Depressurization System
SVOCs	Semi-Volatile Organic Compounds
USCS	Unified Soil Classification System
USGS	United States Geological Survey
UST	Underground Storage Tank
TAL	Target Analyte List
TCL	Target Compound List
TCO	Temporary Certificate of Occupancy
VB	Vapor Barrier
VOCs	Volatile Organic Compounds

1.0 EXECUTIVE SUMMARY

American Environmental Assessment and Solutions, Inc. (American Environmental) has performed Phase II Subsurface Investigation activities at the property located at 872 – 874 Willoughby Avenue in the Bedford Stuyvesant section of Brooklyn, NY (the "Site" or "Subject Property"). The purpose of the Phase II Subsurface Investigation was to characterize the subsurface soil quality to comply with the E-Designation requirements set forth by New York City Department of City Planning (NYCDCP) for the Subject Property and for Site redevelopment. The Phase II Subsurface Investigation was performed in general accordance with the scope and limitations of the American Society for Testing and Materials (ASTM) Standards E 1903-97; the NYSDEC Remedial Program for Soil Cleanup, Subpart 375-6; the E-Designation Program protocol and the contract between American Environmental and the client.

The Subject Property consists of an irregular-shaped, vacant lot located on the southern side of Willoughby Avenue and Broadway. The vacant lot is enclosed by a chain-linked fence along the northern boundary; galvanize fencing along the southern boundary; and by a 4-story mixed-use building to the east and a 3-story building to the west. Access to the Subject Property was via Willoughby Avenue to the north.

The Subject Property was first developed sometime prior to 1887. Historical usage of the Site included furniture upholstery from approximately 1935 through 1984 and usage as storefronts. The commercial building that previously occupied Site was vacant from approximately 1986 through 2007. The building was demolished in 2011 and the Site has been vacant land since then.

The total area of the Subject Property is approximately 14,868 square feet. The Tax Map number for the property is Block 1593; Lot 23. The property is zoned as C4-4L; General Commercial District. The occupancy code with the New York City Department of Finance for the Subject Property is listed as V1; Vacant Land. The Little "E" Restriction for the Subject Property is listed as "**HAZMAT/Noise/Air**". The E-Designation for Hazardous Materials (E-285) was placed on the Site by New York City Department of City Planning (NYCDCP) as part of the 10/11/2012, Bedford Stuyvesant North rezoning (CEQR 12DCP156Y).

Field activities consisted of a Ground penetrating Radar (GPR) survey and the installation and sampling of seven (7) soil borings, four (4) temporary monitoring wells and five (5) soil vapor probes

All samples were transmitted to a New York State certified (Elap # 11301) laboratory and analyzed for Volatile Organic Compounds (VOCs) in accordance with United States Environmental Protection Agency (EPA) Method 8260, Semi-Volatile Organic

Compounds (SVOCs) via EPA Method 8270, Pesticides and Poly Chlorinated Byphenyl (PCBs) via EPA Method 8081 and 8081, and Target Analyte List (TAL) metals. The soil vapor samples were analyzed for VOCs by USEPA Method TO-15. All field activities were performed on November 19th, December 4th and 5th, 2013. The results of the investigation are contained in this report.

- Ground Penetrating Radar (GPR) Survey:
    - The findings of the GPR survey did not identify any significant anomaly consistent with the presence of tank(s) or containers such as drums in the subsurface.

- Surface Soil Quality; 0 – 2 feet:
    - No **VOCs** were detected in any of the surface soil samples obtained from SB-1 through SB-7.
    - **SVOCs** were identified in surface soil samples obtained from SB-2 through SB-7 exceeding their respective Unrestricted Use Soil Cleanup Objectives (SCOs) Part 375-6.8(a) or Restricted Use Residential SCOs Part 375-6.8(b).
    - No **Polychlorinated Biphenyls (PCBs)** were detected in any of the surface soil samples obtained from SB-1 through SB-7.
    - **Pesticides** were identified in the surface soil samples obtained from SB-2 and SB-3 exceeding their respective Unrestricted Use SCOs. The pesticide Chlordane was detected in soil sample SB-2; and Aldrin and Dieldrin was detected in soil samples SB-3 exceeding their respective SCOs.
    - **Target Analyte List (TAL) Metals** were identified in all of the surface soil samples, obtained from soil boring SB-1 through SB-7 exceeding their respective Unrestricted and/or Restricted Use Residential SCOs. *Chromium* detected in SB-5 and SB-6; *Copper* detected in SB-5 and SB-7; *Lead* detected in all soil samples SB-1 through SB-7; *Nickel* detected in SB-6; Zinc detected in SB-2, SB-4, SB-5, and SB-7; and *Mercury* detected in SB-2 through SB-7 exceeding their respective Unrestricted and/or Restricted Use Residential SCOs.

- Sub-Surface Soil Quality; (10 – 12 feet):
    - No **VOCs** were detected in any of the subsurface soil samples SB-1 through SB-7. However the compound Tetrachloroethene was identified in the duplicate same at a level of 2300 µg/kg exceeding Track 1.

- **SVOCs** were identified in subsurface soil samples obtained from soil boring SB-4 and SB-7 exceeding their respective Unrestricted Use Soil Cleanup Objectives (SCOs) Part 375-6.8(a) or Restricted Use Residential SCOs Part 375-6.8(b).

- No **Polychlorinated Biphenyls (PCBs)** were detected in any of the subsurface soil samples obtained from SB-1 through SB-7.

- **Pesticides** were identified in the subsurface soil sample SB-4 exceeding their respective Unrestricted Use SCOs. The pesticide Chlordane was detected at a level of 150µg/kg exceeding its respective Unrestricted Use SCOs of 94µg/kg.

- **Target Analyte List (TAL) Metals** were identified in subsurface soil samples SB-5 through SB-7 exceeding their respective Unrestricted Use SCOs.
  The Metal Cadmium, Lead, Zinc and Mercury were detected in subsurface soil sample SB-7; *Copper* was detected in SB-6; and *Lead* in SB-5 exceeding their respective Unrestricted and/or Restricted Use Residential SCOs.

- Groundwater Quality:
  - **VOCs** were detected in all of the groundwater samples obtained from monitoring well MW-1 through MW-4. Sec-Butylbenzene was detected in groundwater sample from MW-1 exceeding its respective NYSDEC Ambient Groundwater Quality Standards. Tetrachloroethene was detected in groundwater samples from MW-2 through MW-4 2 exceeding their respective NYSDEC Ambient Groundwater Quality Standards.

  - **SVOCs** were identified in groundwater sample obtained from MW-1 through MW-4 exceeding their respective NYSDEC Ambient Groundwater Quality Standards. The SVOC Benzo(a) Anthracene was detected in all of the groundwater samples exceeding their respective Groundwater Quality Standard.

  - No **Polychlorinated Biphenyls (PCBs)** were detected in the groundwater samples obtained from MW-1 through MW-4.

  - No **Pesticides** were detected in the groundwater samples obtained from MW-1 through MW-4.

  - No **TAL Metals** were identified in the groundwater samples obtained from MW-1 through MW-4.

Table 1 through 12 are attached to this report

Appendix B provides a copy of the soil and groundwater samples laboratory results

- Soil Vapor:
  - Low levels of VOCs were identified in the soil vapor samples. Petroleum related VOCs detected include toluene at concentrations ranging from 33.7µg/m^3 to 215µg/m^3 in all five soil vapor locations; Benzene was identified at a concentration ranging from 4.37 µg/m^3 to 11.6 µg/m^3; Ethylbenzene at concentrations ranging from 10.7 µg/m^3 to 40.9 µg/m^3; and o-Xylene at concentrations ranging from 10.3 µg/m^3 to 33.2 µg/m^3.

    Chlorinated related VOCS identified include Tetrachloroethene (PCE) at concentrations ranging from 43.2µg/m^3 to 164µg/m^3; and Trichloroethene (TCE) at concentrations ranging from .268µg/m^3 to 9.99µg/m^3.

New York State currently does not have any standards, criteria or guidance values for concentrations of compounds in soil vapor. Additionally, there are currently no databases available of background levels of volatile chemicals in soil vapor. In the absence of this information, soil vapor sampling results are reviewed "as a whole," in conjunction with the results of other environmental sampling and the site conceptual model, to identify trends and spatial variations in the data.

American Environmental Opinion:

Based upon the laboratory results, it appears that the elevated levels of SVOCs, metals and pesticides are mainly in the surface soil at the Site. The SVOCs and metals identified may be attributed to fill material as seen throughout the NYC area. The origin of the fill material is unknown. The fill material may have been used in the historical development of the Site. The fill material is believed to be present to a depth of approximately 10 to 12 feet in the western and southeastern portion of the Site where SB-4, SB-5, SB-6 and SB-7 were installed.

Analyses	0–2 ft (Surface Soil)	Location on Site	10–12 ft (Sub-surface Soil)	Location on Site
VOCs	None	-	None	-
SVOCs	SB-2 through SB-7	Entire Site except for the northwestern corner	SB-4 and SB-7	Western and southern portion of subsurface
PCBs	None	-	None	-
Pesticides	SB-2 & SB-3	Southwest & central portion of Site	SB-4	Western portion of subsurface
TAL Metals	SB-1 through SB-7	Surface soil on the entire Site	SB-5 through SB-7	North and southeastern portion of Site

VOCs were not identified in the surface or subsurface soil samples obtained from the Site. VOCs were identified in all of the groundwater samples. American Environmental believes that the VOCs identified in the groundwater beneath the Site may be from an off-site source.

All work referenced has been conducted in accordance with a Work Plan prepared by American Environmental Assessment & Solutions, Inc dated October 16th, 2013.

1.1 Environmental Professional Declarations

Ms. Antoinette Ollivierre Senior Geologist, gathered and compiled information contained in this report. Mr. Eugene Kuksa, Environmental Scientist performed all fieldwork for the Subject Property.

Antoinette Ollivierre, CEC, CEI
Senior Geologist

> I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.
>
> I have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

This summary does not contain all the information presented in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided and to aid in any decisions made or actions taken based on this information.

No effort has been made to perform any investigation beyond what is included in this report. The observations included herein summarize the results of the environmental activities up to 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 II Subsurface Investigation.

2.0 INTRODUCTION

American Environmental Assessment & Solutions, Inc has performed a Phase II Subsurface Investigation at the property located at 872 – 874 Willoughby Avenue in the Bedford Stuyvesant section of Brooklyn, NY (the Site). The Phase II Subsurface Investigation was to address the environmental concerns indentified in the Phase I Environmental Site Assessment (ESA) report for the Site, prepared by Environmental Affiliates, Inc. (EAI) dated 4/5/2013 and to comply with the E-Designation requirements. The Subject Property was included in the Bedford Stuyvesant North rezoning (CEQR 12DCP156Y) dated 10/11/2012, when An E-Designation for Hazardous Materials (E-285) was placed on the Site by the New York City Department of City Planning (DCP).

2.1 Site Location and Current Usage

The Subject Property is located in the Bedford Stuyvesant North section of Brooklyn, NY and is identified as Block 1593; Lot 23 on the New York City Tax Map. Figure 1 is a Site location map. The Subject Property consists of an irregular-shaped, vacant lot, 14,868 square feet in area and is enclosed by a chain-linked fence along the northern boundary; galvanize fencing along the southern boundary; and by a 4-story mixed-use building to the east and a 3-story building to the west. Access to the Subject Property was via Willoughby Avenue to the north.

The property is zoned as C4-4L; General Commercial District. The occupancy code with the New York City Department of Finance for the Subject Property is listed as V1; Vacant Land. The Little "E" Restriction for the Subject Property is listed as "**HAZMAT/Noise/Air**".

2.2 Proposed Redevelopment Plan

The proposed use of the Site will consists of the construction of a nine story mixed-usage building with a cellar. The building foundation will be at a depth of 10 feet below grade. The footprint of the building upon completion will be approximately 13,889 square feet. The cellar will contain the maintenance office, utility room, elevator, and parking spaces. The building will be utilized for mixed-usage with the first floor as commercial spaces; and floors 2 through 9 as apartment units. A copy of Architectural drawings of the proposed Site development was previously submitted to the NYCOER.

Redevelopment efforts of the Site included planning, and construction of a nine story mixed-use building with a cellar and Site investigation in accordance with this work plan of selected areas of environmental concern. The current zoning designation is C4-4L; General Commercial District.

2.2 Description of Surrounding Property

The neighborhood surrounding the Subject Property contains a variety of land uses including residential and commercial. Current use(s) of surrounding properties include the following:

Direction	Adjacent Properties
North (across Broadway)	1-story vacant commercial building, 1000 Broadway; 5-story mixed-use building, 1011 Broadway, "Papa John's Pizza"; 4-story mixed use building, 1013 Broadway, " Mega Aid Pharmacy"
South	Four 3- and 4-story residential buildings
East	4-story mixed-use building, 1022 Broadway, "B Home Management, LLC", "Online Homes Real Estate"
West	3-story residential building, 864 Willoughby Avenue

2.3 Previous Investigation(s)

The following environmental work plans and reports were developed for the Site:

Phase I Environmental Site Assessment, April 5th, 2013, prepared by EAI.

The Phase I ESA indentified the following recognized environmental conditions (RECs) in connection with the Site:

1. The Little "E" Designation of the property as "Hazmat/Noise/Air".

Phase II Subsurface Investigation Work Plan and Health & Safety Plan, October 16th, 2013, prepared by American Environmental Assessment & Solutions, Inc.

The Phase II Subsurface Investigation Work Plan provided the scope of work and protocol to be followed for this Phase II Subsurface Investigation.

3.0 PURPOSE AND SCOPE

The scope of work for the Phase II Subsurface Investigation was conducted in accordance with American Environmental Assessment & Solutions, Inc's Work Plan dated October 16th, 2013.

The purpose of the investigation was to characterize the subsurface soil and groundwater quality to comply with the requirements set forth for the E-Designation of the Site and for Site redevelopment.

The general scope of the Phase II Subsurface investigation consisted of the following:

- A geophysical survey to identify the presence or absence of underground storage tanks (USTs) or buried drums in the subsurface of the Site and to clear locations of proposed boring from buried utilities;
- Advancing of seven borings;
- Installation of four temporary monitoring wells;
- Collection of two samples from each boring for laboratory analysis;
- Groundwater sampling;
- Installation of five soil vapor probes and sampling;
- Preparation of a Phase II Subsurface Investigation Report documenting all work, assessment, conclusion of findings and recommendations.

The scope and methods used for the various field activities are documented below.

All related portions of the fieldwork were performed, at a minimum in accordance with acceptable industry standards. These acceptable industry standards include, but not limited to, the ASTM Standard Guide for Phase II Environmental Site Assessments (E 1903-97), the New York State Department of Environmental Conservation Remedial Program for Soil; Subpart 375-6, the New York State Department of Environmental Conservation Bureau of Spill Prevention & Response Sampling Guidelines and Protocols, March 1991 and the Draft DER-10 Technical Guidance for Site Investigation and Remediation, December 2002.

4.0 PHASE II FIELDWORK

The purpose of this section is to document the details and protocols that were utilized to accomplish the project goals. Field investigation and sampling activities were conducted on November 19th, December 4th and 5th, 2013, under the supervision of Mr. Eugene Kuksa, Environmental Scientist for American Environmental. Prior to the field investigation, utilities were marked out by the respective utility companies where they entered or were located adjacent to the Site. Utility mark out confirmation number 132310608 was issued to the mark out.

The following environmental field activities were performed at the Site:

Soil, Groundwater and Soil Vapor

- Seven (7) borings were completed at the site to address historic fill conditions, past usage, the E-Designation and evenly spaced across the entire site.
- Borings SB-1/MW-1 was installed in the northwestern portion of the Site to investigate soil/groundwater quality.
- Boring SB-2 / MW-2 was installed in the southwestern portion of the Site to investigate soil/groundwater quality.
- Boring SB-3 was installed in the central portion of the proposed building location at the Site to investigate site conditions.
- Boring SB-4 was installed in the northern portion of the Site to investigate site conditions.
- Boring SB-5 / MW-4 was installed in the southern portion of the Site to investigate soil/groundwater quality.
- Boring SB-6 was installed in the southeastern portion of the Site to investigate site conditions.
- Boring SB-7 / MW-3 was installed in the eastern portion of the Site to investigate soil/groundwater quality.

- SG-1/SG-2/SG-3/SG-4/SG-5 was installed in evenly spaced locations across the footprint of the proposed building to detect potential soil vapor impacts.

4.1 Geophysical Survey

Prior to drilling activities a geophysical survey was performed at the Site on November 19th, 2013. The geophysical survey was performed to determine the presence or absence of tank(s) and any other buried containers such as drums and mark out all onsite utilities in the vicinity and surrounding the proposed drilling location.

The geophysical survey was performed across the entire site prior to investigative borings using ground penetrating radar (GPR). The GPR survey was performed utilizing a Mala, model; easy locator. A series of GPR profiles will be completed along selected lines using a Control Unit. The survey was performed across the Site over a grid pattern. The GPR operator wheeled the antenna over the predetermined grid. The GPR equipment takes "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 difference in amplitude obtained during each scan is graphically displayed at the Control Unit, which will then interpreted by the GPR operator at the time of the survey.

The GPR survey did not identify any anomaly consistent with the presence of tank(s) or buried containers such as drums.

4.2 Soil Investigation

Protocol and Sampling Locations

A soil sampling program was conducted according to the American Environmental Assessment & Solutions, Inc's WP dated October 16th, 2013. Soil samples were collected to assess the soil quality in the subsurface of the Site.

A total of seven (7) soil borings by direct-push technology was performed at the Site utilizing a Geoprobe® to install all boring locations. The soil borings were designated SB-1 through SB-7. Soil samples were collected in all borings at 2-foot intervals utilizing a 4-foot Macro Core sampler fitted with dedicated acetate liners. The Macro sampler allows for the collection of both continuous and discrete soil samples. Each sampler was installed with 1 ½ -inch diameter drill rods. Two soil samples were obtained from each boring for analysis.

The following provides the locations of soil borings SB-1 through SB-7 and sample intervals:

Soil Borings Locations				
Soil Boring	**Location(s) Installed**	**Total Depth (ft bgs)**	**Sample Interval Depth (ft bgs)**	**PID Readings (ppm)**
SB-1	Northwestern portion of the Site	65	0 – 2	0.0
			10 - 12	0.0
SB-2	Southwestern portion of the Site	65	0 – 2	0.0
			10 - 12	0.4
SB-3	Central portion of the Site	15	0 – 2	0.3
			10 - 12	0.0
SB-4	Western portion of the Site	15	0 – 2	0.0
			10 - 12	64.4
SB-5	Northeastern portion of the Site	65	0 – 2	64.4
			10 - 12	
SB-6	Eastern portion of the Site	15	0 – 2	0.0
			10 - 12	0.0
SB-7	Southeastern portion of the Site	65	0 – 2	0.0
			10 - 12	0.0

The soil type beneath the Site consisted mainly of brown to gray medium-grained silty sand containing rocks, gravel and debris.

Soil boring SB-1 and SB5 was installed in the northwestern portion of the Site to a depth of twelve feet below grade for soil sample collection and then converted to a temporary monitoring well to a total depth of 65 feet below grade for groundwater sampling. The soil type identified in SB-1 consists of brown to gray medium-grained silty sand containing gravel and rocks.

Soil boring SB-2 was installed in the southwestern portion of the Site to a depth of twelve feet below grade for soil sample collection and then converted to a temporary monitoring well to a total depth of 65 feet below grade for groundwater sampling. The soil type identified in SB-2 consists of brown to gray medium-grained silty sand containing gravel and rocks.

Soil boring SB-3 was installed in the central portion of the Site to a depth of fifteen feet below grade. The soil type identified in SB-3 consists of brown to gray medium-grained silty sand containing gravel.

Soil boring SB-4 was installed in the western portion of the Site to a depth fifteen feet below grade. The soil type identified in SB-4 consists of blackish-brown medium-grained silty sand containing gravel, rocks and debris with petroleum odor.

Soil boring SB-6 was installed in the eastern portion of the Site to a depth of fifteen feet below grade. The soil type identified in SB-6 consists of brown to gray, medium-grained silty sand containing rocks, brick and debris.

Soil boring SB-7 was installed in the southeastern portion of the Site to a depth of twelve feet below grade for soil sample collection and then converted to a temporary monitoring well to a total depth of 65 feet below grade for groundwater sampling. The soil type identified in SB-7 consists of brown to gray medium-grained silty sand containing gravel.

Upon completion of the investigation, borings were filled with soil cuttings and clean soil to ground surface.

Appendix C provides copies of the Soil Boring Logs

Figure 3 provides a Sampling Location Map

4.3 Field Characterization

American Environmental professional Eugene Kuksa, Environmental Scientist was onsite to characterize each soil sample in the field. The soil characterization consisted of determining the soil classification utilizing the Unified Soil Classification System; screening for organic vapors utilizing a Photoionization Detector (PID); and evaluation for visual and olfactory indications of environmental impacts. Headspace analyses were conducted on each sample by partially filling the zip lock bag and sealing it, thereby creating a void. This void is referred to as the sample headspace. To facilitate the detection of any hydrocarbons contained within the headspace, the container was agitated for a period of 30 seconds. Each sample was then screened for organic vapors utilizing a Photoionization Detector (PID)

A PID makes use of the principle of photoionization for the detection and qualitative measurement of organic vapors. A PID does not respond to all compounds similarly, rather, each compound has its own response factor relative to its calibration. For this investigation, the PID was calibrated to the compound isobutylene, which is published by the manufacturer. The PID has a minimum detection limit of 0.1 parts per million (ppm). This meter measures the hydrocarbon concentrations in isolated portions of the secured samples.

Olfactory evidence of petroleum contamination was identified during the field screening of the samples from the soil borings. Organic vapors were detected in the surface soil sample from soil boring SB-3. Organic vapors were detected in the sub-

surface samples from soil boring SB-2 through SB-4. The general soil type beneath the Site consisted of brown to grey medium grained silty-sand containing rocks and gravel. The ground surface is covered by gravel, rocks, grass and native soil.

Additional information for each sample field screened is provided as appendix C; boring logs.

Based upon the requirements set forth in the scope of work, two select soil samples from each boring were placed into 8-ounce laboratory provided jars and appropriately labeled. The samples were then placed in a cooler filled with ice maintained at a maximum 4 degrees Celsius to be transmitted under proper chain of custody to a New York State certified (Elap # 11301) laboratory.

4.4 Groundwater Investigation

Four of the soil borings installed were converted to temporary wells for groundwater collection. Soil boring SB-1, SB-2, SB-5 and SB-7 were converted to temporary monitoring wells by inserting a 1-inch diameter PVC well screen and riser into the open borehole. Low-flow sampling techniques were utilized to purge the wells and obtain the groundwater samples. One representative groundwater sample was collected from each well with a peristaltic pump and dedicated Teflon tubing and placed into laboratory supplied glassware. The Sampling was conducted in accordance with NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002, and Sampling Guidelines and Protocols, dated March 1991. Following sample collection, the boreholes were backfilled with soil cuttings and clean soil.

The following provides a summary of the temporary monitoring wells and groundwater collection points.

Soil Boring	Location(s) Installed	Depth to Groundwater (feet)	Total Depth (feet)
SB-1/MW-1	Northwestern portion of Site	55	65
SB-2/MW-2	Southwestern portion of Site	55	65
SB-7/MW-3	Southeastern portion of Site	55	65
SB-5/MW-4	Northeastern portion of Site	55	65

4.5 Soil Vapor Sampling

Five (5) soil vapor probes were installed at selected locations within the footprint of the proposed new construction in accordance with the NYSDOH "Guidance for Evaluating

Soil Vapor Intrusion in the State of New York" dated October 2006. The soil vapor probes were installed by drilling a 2 ¼-inch hole to approximately 11 - 12 feet below grade using a Geoprobe drilling system. A vapor point comprised of a stainless steel screen was connected to ¼-inch stainless steel tubing advanced into the hole. The tubing was then connected with a sample fitting to allow for the collection of soil gas. The annular space around the stainless steel screen was packed with coarse sand to six-inches above the screen, creating a sampling zone. A bentonite seal was then be placed above the sampling zone to ground surface.

Five Samples were collected in Summa canisters which have been certified clean by the laboratory and analyzed by using USEPA Method TO-15. Flow rate of both purging and sampling did not exceed 0.2 L/min. Sampling occurred for duration of 2 hours. Prior to sample collection the soil vapor will be screened for the presence of VOCs using a PID. A sample log sheet was maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of the soil vapor extracted, vacuum of canisters before and after the samples are collected, apparent moisture content of the sampling zone, and chain of custody protocols.

As part of the vapor intrusion evaluation, a tracer gas was used in accordance with NYSDOH protocols to serve as a quality assurance/ quality control (QA/QC) device to verify the integrity of the soil vapor probe seal. Helium was used as the tracer gas and a box served to keep it in contact with the probe during testing. A portable monitoring device was used to analyze a sample of soil vapor from the tracer prior to sampling. If the tracer sample results showed a significant presence of the tracer, the probe seals were adjusted to prevent infiltration. At the conclusion of the sampling round, tracer monitoring was performed a second time to confirm the integrity of the probe seals.
All samples were collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH October 2006).

4.6 Decontamination

Each piece of sampling or other down hole equipment was decontaminated prior to each use in order to ensure that cross-contamination between sampling locations does not occur. The following procedure was utilized in the decontamination process:

- Wipe clean and wash with Alconox®
- Potable water rinse
- Methanol rinse
- Deionized water rinse
- Air dry

All decontamination procedures were performed in an area segregated from any sampling areas. Any rinsate from the decontamination areas is contained and removed from the Site.

4.7 Laboratory Analytical

All samples were properly handled and placed into appropriate labeled laboratory supplied containers. The samples were placed in a cooler filled with ice and maintained at a maximum 4 degrees Celsius. All samples were transmitted under proper chain of custody procedures to a State-certified (ELAP No. 11301) laboratory for confirmatory laboratory analyses.

- Volatile Organic Compounds by EPA Method 8260;
- Semi-volatile organic compounds by EPA Method 8270;
- Pesticides/PCBs by EPA Method 8081/8082; and
- Target Analyte List metals by EPA Method 6010;

Soil vapor samples were analyzed for VOCs by using USEPA Method TO-15.

All holding times were met. The laboratory did not report any irregularities with respect to their internal Quality Assurance / Quality Control.

5.0 ANALYTICAL RESULTS

5.1 Results of Soil Samples

Table 1 through 8 provides the analytical results for the Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Pesticides/PCBs and TAL Metals detected in soil samples SB-1 through SB-7. **Table 1 through 8** also provides a comparison of the analytical results to the Recommended Soil Cleanup Objectives (SCO) from the 6 NYCRR Part 375.6(b) Restricted Residential Soil Cleanup Objectives. The SCOs represent the concentration of a contaminant in soil which when achieved at the Site will require no use restrictions on the Site for the protection of public health, groundwater and ecological resources due to the presence of contaminants in soil.

- Surface Soil Quality; 0 – 2 feet:
  - No **VOCs** were detected in any of the surface soil samples obtained from SB-1 through SB-7.
  - **SVOCs** were identified in surface soil samples obtained from SB-2 through SB-7 exceeding their respective Unrestricted Use Soil Cleanup Objectives (SCOs) Part 375-6.8(a) or Restricted Use Residential SCOs Part 375-6.8(b).

    The following table is a summary of the SVOCs identified in the surface soil exceeding its respective Unrestricted Use and Restricted Use Residential SCOs. The complete table is attached to this report.

Sample Identification	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Semi-Volatile Organic Compounds (µg/kg)								
Benzo (a) Anthracene	**2900**	**1500**	**1400**	**3300**	**6700**	**3100**	1,000	1,000
Benzo (a) Pyrene	**3000**	**1300**	ND	**2900**	**5800**	**2800**	1,000	1,000
Benzo (b) Fluoranthene	**3700**	**1600**	ND	**4100**	**6300**	**4000**	1,000	1,000
Benzo (k) Fluoranthene	**1200**	590	ND	**1700**	**2300**	**1400**	800	1,000
Chrysene	**3200**	**1500**	**1300**	**3600**	**6800**	**3300**	1,000	1,000
Dibenzo(a,h)anthracene	**530**	ND	ND	**380**	ND	260	330	330
Indeno (1,2,3-cd) Pyrene	**1900**	ND	**560**	**1300**	**2800**	**890**	500	500
Total SVOCS	**16,430**	**5,900**	**3,260**	**17,280**	**30,700**	**15,750**		

  - No **Polychlorinated Biphenyls (PCBs)** were detected in any of the surface soil samples obtained from SB-1 through SB-7.

- **Pesticides** were identified in the surface soil samples obtained from SB-2 and SB-3 exceeding their respective Unrestricted Use SCOs. The pesticide Chlordane was detected in soil sample SB-2; and Aldrin and Dieldrin was detected in soil samples SB-3 exceeding their respective SCOs.

  The following table is a summary of the Pesticides identified in the surface soil exceeding its respective Unrestricted Use SCOs. The complete table is attached to this report.

Sample Identification	SB-2	SB-3	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a) (µg/kg)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Sample Depth	0' - 2'	0' - 2'		
Units	µg/kg	µg/kg		
Pesticides (µg/kg)				
Aldrin	ND	**41**	5	19
Chlordane	110	ND	94	910
Dieldrin	ND	7.8	5	39

- **Target Analyte List (TAL) Metals** were identified in all of the surface soil samples, obtained from soil boring SB-1 through SB-7 exceeding their respective Unrestricted and/or Restricted Use Residential SCOs.

  The following table is a summary of the **TAL Metals** identified in the surface soil exceeding their respective Unrestricted Use and/or Restricted Use Residential SCOs.

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a) (mg/kg)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (mg/kg)
Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'		
TAL Metals (mg/kg)									
Chromium	14.7	13.2	23.5	16.6	35.2	**49.2**	18.5	30	36
Copper	48.7	25	26.8	29.4	53	42.3	70.2	50	270
Lead	83	182	76.9	328	207	218	**602**	63	400
Nickel	12.6	10.6	15	9.68	28.4	35.8	17.6	30	140
Zinc	53.6	222	90.9	214	148	169	376	109	2,200
Mercury	< 0.07	0.42	0.24	0.8	0.25	0.21	0.7	0.18	0.81

- Sub-Surface Soil Quality; (10 – 11 feet):
  - No **VOCs** were detected in any of the subsurface soil samples SB-1 through SB-7. However the compound Tetrachloroethene was identified in the duplicate same at a level of 2300 µg/kg exceeding Track 1.

  - **SVOCs** were identified in subsurface soil samples obtained from soil boring SB-4 and SB-7 exceeding their respective Unrestricted Use Soil Cleanup Objectives (SCOs) Part 375-6.8(a) or Restricted Use Residential SCOs Part 375-6.8(b).

    The following table is a summary of the SVOCs identified in the subsurface soil exceeding its respective Unrestricted Use and Restricted Use Residential SCOs. The complete table is attached to this report.

Sample Identification	SB-4	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Sample Depth	10' - 12'	10' - 12'		
Units	µg/kg	µg/kg		
Semi-Volatile Organic Compounds (µg/kg)				
Benzo (a) Anthracene	**5600**	**3400**	1,000	1,000
Benzo (a) Pyrene	**5500**	**2800**	1,000	1,000
Benzo (b) Fluoranthene	**6900**	**3700**	1,000	1,000
Benzo (k) Fluoranthene	**3000**	**1200**	800	1,000
Chrysene	**5900**	**3800**	1,000	1,000
Dibenzo(a,h)anthracene	**650**	280	330	330
Indeno (1,2,3-cd) Pyrene	**2000**	**910**	500	500

  - No **Polychlorinated Biphenyls (PCBs)** were detected in any of the subsurface soil samples obtained from SB-1 through SB-7.

  - **Pesticides** were identified in the subsurface soil sample SB-4 exceeding their respective Unrestricted Use SCOs. The pesticide Chlordane was detected at a level of 150µg/kg exceeding its respective Unrestricted Use SCOs of 94µg/kg.

  - **Target Analyte List (TAL) Metals** were identified in subsurface soil samples SB-5 through SB-7 exceeding their respective Unrestricted Use SCOs. The TAL Metal ***Lead*** was identified exceeding its respective Unrestricted Use SCOs.

    The following table is a summary of the **TAL Metals** identified in the subsurface soil exceeding their respective Unrestricted Use and/or Restricted Use Residential SCOs.

Sample Identification	SB-5	SB-6	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a) (mg/kg)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (mg/kg)
Sample Depth	10' - 12'	10' - 12'	10' - 12'		
Units	mg/kg	mg/kg	mg/kg		
TAL Metals (mg/kg)					
Cadmium	< 0.35	<0.33	**9.92**	2.5	2.5
Copper	16	55.9	36	50	270
Lead	77.3	39.8	**568**	63	400
Zinc	56.2	53.1	**3000**	109	2,200
Mercury	0.1	< 0.07	0.48	0.18	0.81

Table 1 through 8 are attached to this report

Appendix B provides a copy of the soil samples laboratory results

5.2 Results of Groundwater Samples

Table 9 through 12 provides the analytical results for the Volatile Organic Compounds (VOCs); Semi-Volatile Organic Compounds (SVOCs); Pesticides/PCBs and TAL Metals detected in groundwater samples GW-1 through GW-4. **Table 9 through 12** also provides a comparison of the analytical results to the NYSDEC TOGS Ambient Groundwater Quality Standards.

- Groundwater Quality:
  Four temporary monitoring wells were installed at the Site for groundwater collection.

  - **VOCs** were detected in all of the groundwater samples obtained from monitoring well MW-1 through MW-4. Sec-Butylbenzene was detected in groundwater sample from MW-1 exceeding its respective NYSDEC Ambient Groundwater Quality Standards. Tetrachloroethene was detected in groundwater samples from MW-2 through MW-4 2 exceeding their respective NYSDEC Ambient Groundwater Quality Standards.

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-3 Duplicate	NYSDEC Ambient Groundwater Quality Standards (µg/L)
Units	ug/L	ug/L	ug/L	ug/L	ug/L	
Volatile Organic Compounds (µg/L)						
sec-Butylbenzene	**51**	ND	ND	ND	ND	5
Tetrachloroethene	ND	**30**	**150**	**160**	**120**	5

- **SVOCs** were identified in groundwater sample obtained from MW-1 through MW-4 exceeding their respective NYSDEC Ambient Groundwater Quality Standards. The SVOC Benzo(a) Anthracene was detected in all of the groundwater samples exceeding their respective Groundwater Quality Standard.

  The following table is a summary of the **SVOCs** exceeding its respective NYS Ambient Groundwater Quality Standards. The complete table is attached to this report.

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-3 Duplicate	NYSDEC Ambient Groundwater Quality Standards (µg/L)
Units	ug/L	ug/L	ug/L	ug/L	ug/L	
Semi-Volatile Organic Compounds (µg/L)						
Benz (a) Anthracene	0.03	0.02	0.03	0.02	0.02	0.002

- No **Polychlorinated Biphenyls (PCBs)** were detected in the groundwater samples obtained from MW-1 through MW-4.

- No **Pesticides** were detected in the groundwater samples obtained from MW-1 through MW-4.

- No **TAL Metals** were identified in the groundwater samples obtained from MW-1 through MW-4.

Table 1 through 12 are attached to this report

Appendix B provides a copy of the soil and groundwater samples laboratory results

5.3 Results of Soil Vapor Samples

The soil vapor samples collected indicated low concentrations of VOCS were identified in the soil vapor samples.

Petroleum related VOCs detected include toluene at concentrations ranging from 33.7µg/m^3 to 215µg/m^3 in all five soil vapor locations; Benzene was identified at a concentration ranging from 4.37 µg/m^3 to 11.6 µg/m^3; Ethylbenzene at concentrations ranging from 10.7 µg/m^3 to 40.9 µg/m^3; and o-Xylene at concentrations ranging from 10.3 µg/m^3 to 33.2 µg/m^3.

Chlorinated related VOCS identified include Tetrachloroethene (PCE) at concentrations ranging from 43.2µg/m^3 to 164µg/m^3; and Trichloroethene (TCE) at concentrations ranging from .268µg/m^3 to 9.99µg/m^3.

New York State currently does not have any standards, criteria or guidance values for concentrations of compounds in soil vapor. Additionally, there are currently no databases available of background levels of volatile chemicals in soil vapor. In the absence of this information, soil vapor sampling results are reviewed "as a whole," in conjunction with the results of other environmental sampling and the site conceptual model, to identify trends and spatial variations in the data.

5.4 Quality Assurance/Quality Control Procedures

QA/QC procedures was used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analysis for this investigation. Field QA/QC procedures was used (1) to document that samples are representative of actual conditions at the Site and (2) identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses was used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix, or by laboratory techniques that may have introduced systematic or random errors to the analytical process. A summary of the field and laboratory QA/QC procedures are provided in the appendices.

6.0 CONCLUSIONS

American Environmental Assessment & Solutions, Inc (American Environmental) has performed a Phase II Subsurface Investigation at the property located at 872 – 874 Willoughby Avenue in the Bedford Stuyvesant section of Brooklyn, NY. Based upon the findings of the Phase II Subsurface Investigation, the following conclusions are provided.

- The field portion of American Environmental investigation consisted of a geophysical survey to determine the presence or absence of any buried containers and to locate and mark out onsite utilities, the installation and sampling of seven (7) soil borings; the installation of four (4) temporary monitoring wells; and the installation of five (5) soil vapor probes. All fieldwork was performed in accordance with all applicable federal, state and local regulations. Select soil was collected based upon protocols set forth in the October 16th, 2013 WP, infield screening and analyzed at a state-certified laboratory for VOCs via EPA Method 8260, SVOCs via EPA Method 8270, Pesticides and PCBs via EPA Method 8081 and 8081, and TAL metals. Soil vapor samples will be analyzed for VOCs by using USEPA Method TO-15.

- Ground Penetrating Radar (GPR) Survey:
    - The findings of the GPR survey did not identify any significant anomaly consistent with the presence of tank(s) or containers such as drums in the subsurface.

- Surface Soil Quality; 0 – 2 feet:
    - No **VOCs** were detected in any of the surface soil samples obtained from SB-1 through SB-7.
    - **SVOCs** were identified in surface soil samples obtained from SB-2 through SB-7 exceeding their respective Unrestricted Use Soil Cleanup Objectives (SCOs) Part 375-6.8(a) or Restricted Use Residential SCOs Part 375-6.8(b).
    - No **Polychlorinated Biphenyls (PCBs)** were detected in any of the surface soil samples obtained from SB-1 through SB-7.
    - **Pesticides** were identified in the surface soil samples obtained from SB-2 and SB-3 exceeding their respective Unrestricted Use SCOs. The pesticide Chlordane was detected in soil sample SB-2; and Aldrin and Dieldrin was detected in soil samples SB-3 exceeding their respective SCOs.

- **Target Analyte List (TAL) Metals** were identified in all of the surface soil samples, obtained from soil boring SB-1 through SB-7 exceeding their respective Unrestricted and/or Restricted Use Residential SCOs. *Chromium* detected in SB-5 and SB-6; *Copper* detected in SB-5 and SB-7; *Lead* detected in all soil samples SB-1 through SB-7; *Nickel* detected in SB-6; Zinc detected in SB-2, SB-4, SB-5, and SB-7; and *Mercury* detected in SB-2 through SB-7 exceeding their respective Unrestricted and/or Restricted Use Residential SCOs.

- Sub-Surface Soil Quality; (10 – 12 feet):
  - No **VOCs** were detected in any of the subsurface soil samples SB-1 through SB-7. However the compound Tetrachloroethene was identified in the duplicate same at a level of 2300 µg/kg exceeding Track 1.
  - **SVOCs** were identified in subsurface soil samples obtained from soil boring SB-4 and SB-7 exceeding their respective Unrestricted Use Soil Cleanup Objectives (SCOs) Part 375-6.8(a) or Restricted Use Residential SCOs Part 375-6.8(b).
  - No **Polychlorinated Biphenyls (PCBs)** were detected in any of the subsurface soil samples obtained from SB-1 through SB-7.
  - **Pesticides** were identified in the subsurface soil sample SB-4 exceeding their respective Unrestricted Use SCOs. The pesticide Chlordane was detected at a level of 150µg/kg exceeding its respective Unrestricted Use SCOs of 94µg/kg.
  - **Target Analyte List (TAL) Metals** were identified in subsurface soil samples SB-5 through SB-7 exceeding their respective Unrestricted Use SCOs.
    The Metal Cadmium, Lead, Zinc and Mercury were detected in subsurface soil sample SB-7; *Copper* was detected in SB-6; and *Lead* in SB-5 exceeding their respective Unrestricted and/or Restricted Use Residential SCOs.

- Groundwater Quality:
  - **VOCs** were detected in all of the groundwater samples obtained from monitoring well MW-1 through MW-4. Sec-Butylbenzene was detected in groundwater sample from MW-1 exceeding its respective NYSDEC Ambient Groundwater Quality Standards. Tetrachloroethene was detected in groundwater samples from MW-2 through MW-4 2 exceeding their respective NYSDEC Ambient Groundwater Quality Standards.

- **SVOCs** were identified in groundwater sample obtained from MW-1 through MW-4 exceeding their respective NYSDEC Ambient Groundwater Quality Standards. The SVOC Benzo(a) Anthracene was detected in all of the groundwater samples exceeding their respective Groundwater Quality Standard.

- No **Polychlorinated Biphenyls (PCBs)** were detected in the groundwater samples obtained from MW-1 through MW-4.

- No **Pesticides** were detected in the groundwater samples obtained from MW-1 through MW-4.

- No **TAL Metals** were identified in the groundwater samples obtained from MW-1 through MW-4.

- Soil Vapor:
  - Low levels of VOCs were identified in the soil vapor samples. Petroleum related VOCs detected include toluene at concentrations ranging from 33.7µg/m^3 to 215µg/m^3 in all five soil vapor locations; Benzene was identified at a concentration ranging from 4.37 µg/m^3 to 11.6 µg/m^3; Ethylbenzene at concentrations ranging from 10.7 µg/m^3 to 40.9 µg/m^3; and o-Xylene at concentrations ranging from 10.3 µg/m^3 to 33.2 µg/m^3.

    Chlorinated related VOCS identified include Tetrachloroethene (PCE) at concentrations ranging from 43.2µg/m^3 to 164µg/m^3; and Trichloroethene (TCE) at concentrations ranging from .268µg/m^3 to 9.99µg/m^3.

New York State currently does not have any standards, criteria or guidance values for concentrations of compounds in soil vapor. Additionally, there are currently no databases available of background levels of volatile chemicals in soil vapor. In the absence of this information, soil vapor sampling results are reviewed "as a whole," in conjunction with the results of other environmental sampling and the site conceptual model, to identify trends and spatial variations in the data.

American Environmental Opinion:

Based upon the laboratory results, it appears that the elevated levels of SVOCs, metals and pesticides are mainly in the surface soil at the Site. The SVOCs and metals identified may be attributed to fill material as seen throughout the NYC area. The origin of the fill material is unknown. The fill material may have been used in the historical development of the Site. The fill material is believed to be present to a depth

of approximately 10 to 12 feet in the western and southeastern portion of the Site where SB-4, SB-5, SB-6 and SB-7 were installed.

Analyses	0–2 ft (Surface Soil)	Location on Site	10–12 ft (Sub-surface Soil)	Location on Site
VOCs	None	-	None	-
SVOCs	SB-2 through SB-7	Entire Site except for the northwestern corner	SB-4 and SB-7	Western and southern portion of subsurface
PCBs	None	-	None	-
Pesticides	SB-2 & SB-3	Southwest & central portion of Site	SB-4	Western portion of subsurface
TAL Metals	SB-1 through SB-7	Surface soil on the entire Site	SB-5 through SB-7	North and southeastern portion of Site

VOCs were not identified in the surface or subsurface soil samples obtained from the Site. VOCs were identified in all of the groundwater samples. American Environmental believes that the VOCs identified in the groundwater beneath the Site may be from an off-site source.

All work referenced has been conducted in accordance with a Work Plan prepared by American Environmental Assessment & Solutions, Inc dated October 16th, 2013.

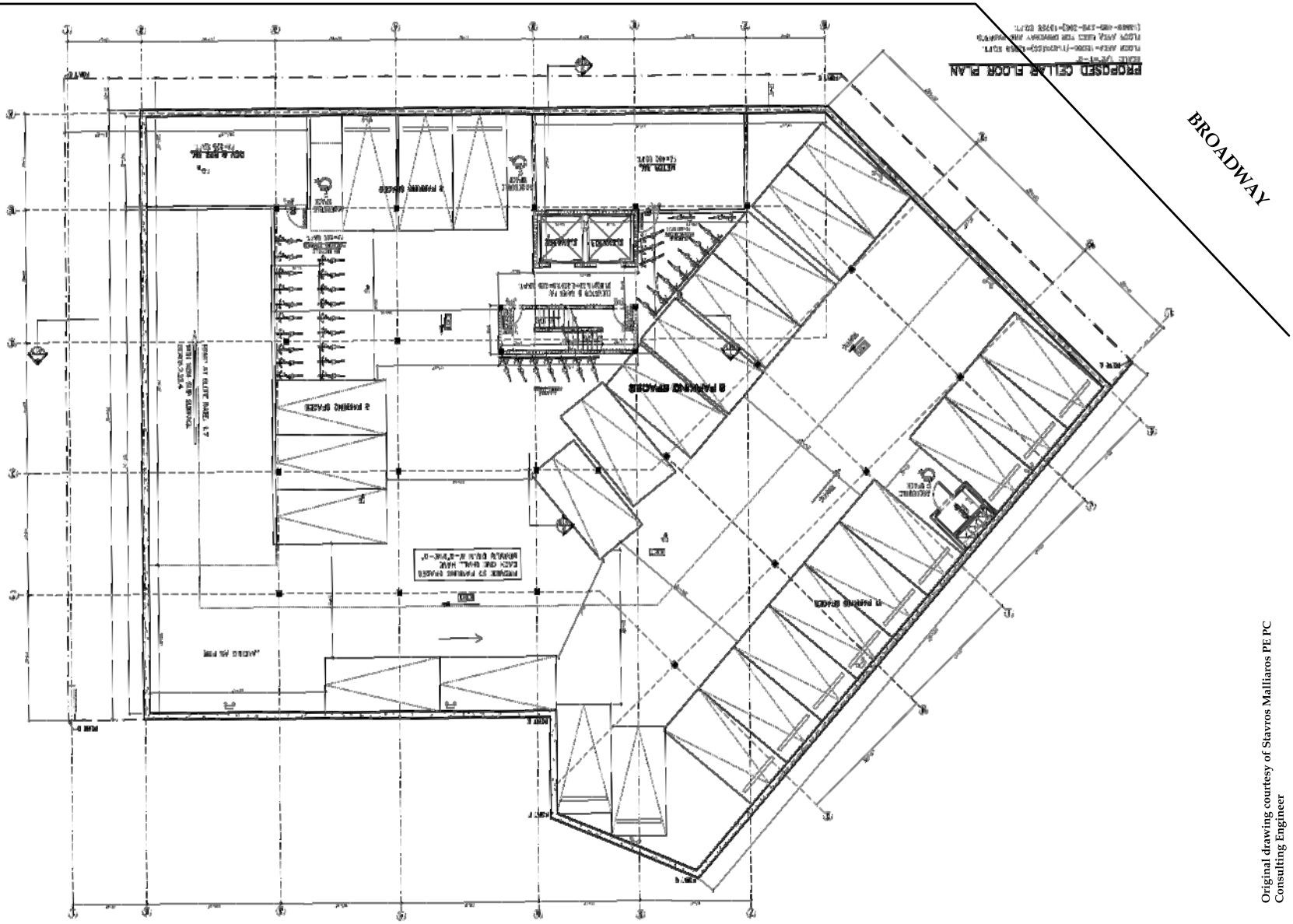
7.0 RECOMMENDATIONS

Based upon the findings of the Phase II Subsurface Investigation presented above, American Environmental provides the following recommendations:

- A Remedial Action Plan (RAP) and a Construction Health and Safety Plan (CHASP) to address the contaminants identified in the soil should be prepared. The RAP and CHASP should be submitted to the NYCOER for review, comment and approval.

SITE MAP

WILLOUGBY AVENUE



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GROUNDWATER FLOW

Original drawing courtesy of Stavros Malliaros PE PC
Consulting Engineer

Legend

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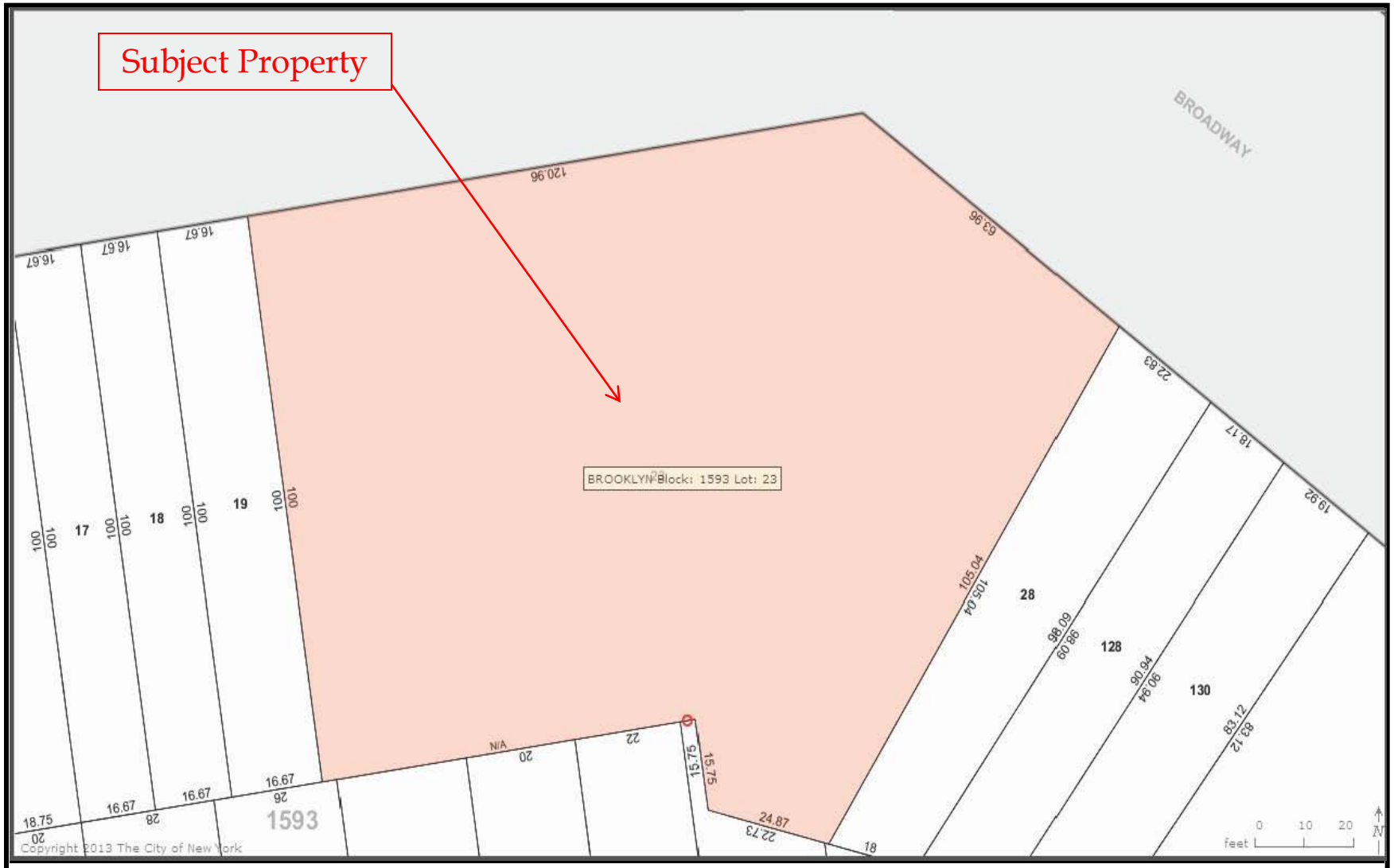
872 - 874 Willoughby Avenue
Brooklyn, NY 11221

Source: Field Notes

Sheet Title: FIGURE 1
Site Map

DATE:	10/16/13
DRAWING #:	1
PROJ NO:	13–0219
DRAWN BY:	ACO
APP'D BY:	DBO
SCALE	NOT TO SCALE

SITE LOCATION MAP



SITE LOCATION MAP

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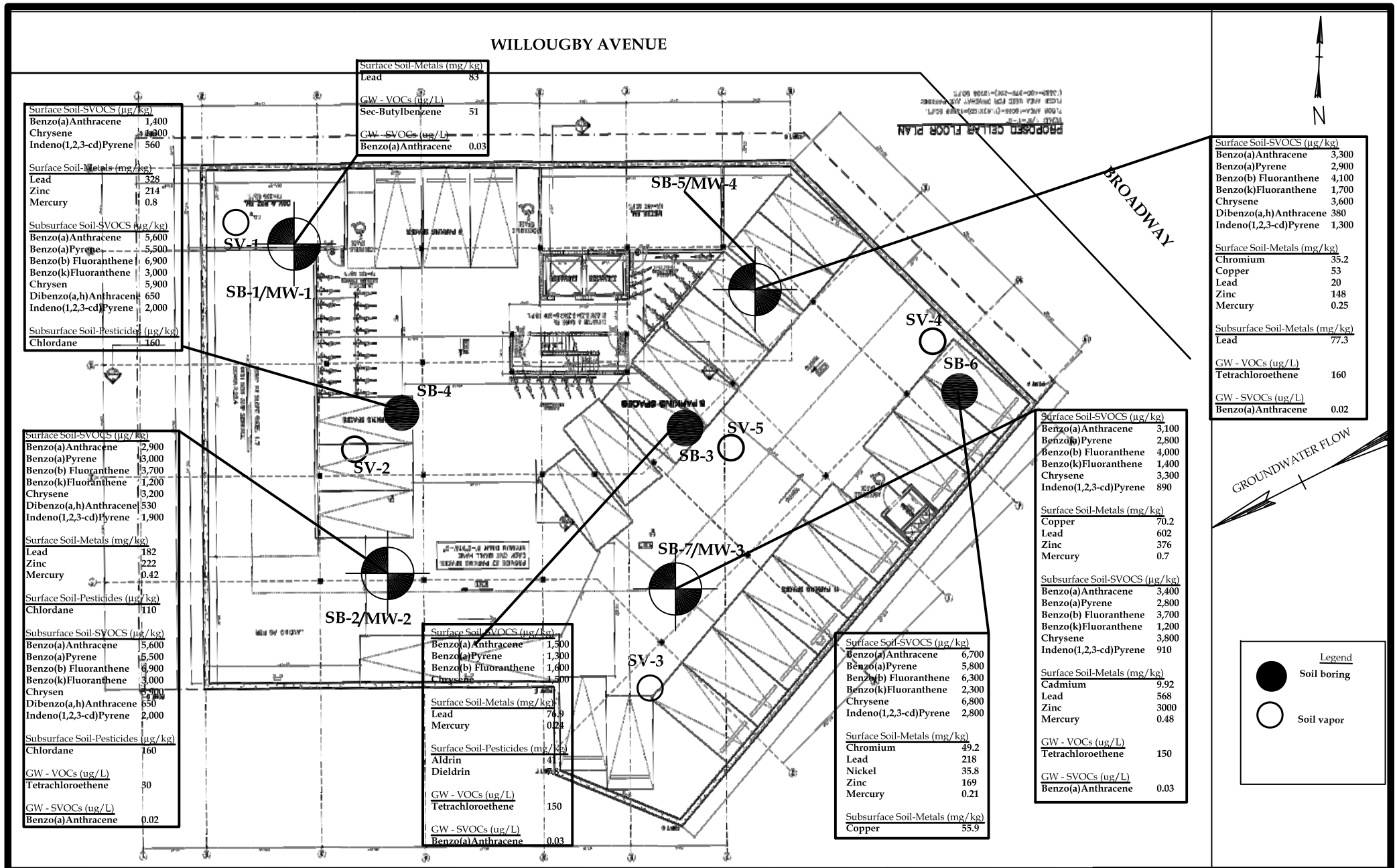
679 Lafayette Avenue, 3rd Floor
Brooklyn, NY 11216
♦
PO Box 6376
North Babylon, NY 11703

Site Name: WILLOUGHBY AVENUE
Address: 872-874 Willoughby Avenue
Brooklyn, NY 11221

Project No.: 13-0219

N

SAMPLING LOCATION MAP



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872 - 874 Willoughby Avenue
Brooklyn, NY 11221

Source:
Field Notes

Sheet Title:
FIGURE 3
Sample Location Map

DATE:	10/30/13
DRAWING #:	1
PROJ NO:	13-0219
DRAWN BY:	ACO
APP'D BY:	DBO
SCALE	NOT TO SCALE

TABLES

SOIL ANALYTICAL RESULTS

Table 1
Surface Soil Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7		
Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Volatile Organic Compounds (µg/kg)									
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	680	100,000
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	270	19,000
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	330	100,000
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	3,600	47,000
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	1,100	100,000
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	20	2,300
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	8,400	47,000
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	2,400	17,000
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	1,800	9,800
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	NS	NS
Acetone	ND	ND	ND	ND	ND	ND	ND	NS	NS
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzene	ND	ND	ND	ND	ND	ND	ND	60	2,900
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bromoform	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bromomethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	NS	NS

NS…No Standard *Bold values represent concentration exceeding the Unrestricted Use SCOs* *ND..Not Detected*

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 1 *Continued…….*
Surface Soil Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7		
Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Volatile Organic Compounds (µg/kg)									
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	760	1,400
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	1,100	100,000
Chloroethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chloroform	ND	ND	ND	ND	ND	ND	ND	370	10,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	250	59,000
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	1,000	30,000
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	NS	NS
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
m + p-Xylene	ND	ND	ND	ND	ND	ND	ND	260	100,000
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND	ND	120	100,000
Methyl-Tert-Butyl-Ether (MTBE)	ND	ND	ND	ND	ND	ND	ND	930	6200
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	50	51000
Naphthalene	ND	ND	6.6	ND	ND	70	ND	12,000	100000
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	12,000	100000
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	3,900	100,000
o-Xylene	ND	ND	ND	ND	ND	ND	ND	260	100,000
p-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	NS	NS
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	11,000	100,000
Styrene	ND	ND	ND	ND	ND	ND	ND	NS	NS
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	5,900	100,000
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	1,300	10,000
Tetrahydrofuran (THF)	ND	ND	ND	ND	ND	ND	ND	NS	NS
Toluene	ND	ND	ND	ND	ND	ND	ND	700	100,000
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	NS	NS
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	190	100,000
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	NS	NS
trans-1,4-dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	NS	NS
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	470	10,000
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	20	210

NS…No Standard *Shaded values represent concentration exceeding the Unrestricted Use SCOs* *ND..Not Detected*

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 2
Surface Soil Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7		
Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Semi-Volatile Organic Compounds (µg/kg)									
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Methylphenol (o-cresol)	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
3&4-Methylphenol (m&p-cresol)	ND	ND	ND	ND	ND	ND	ND	NS	NS
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	NS	NS
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	NS	NS
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	NS	NS
Acenaphthene	ND	280	ND	ND	ND	1500	320	20,000	100,000
Acenaphthylene	ND	320	ND	ND	660	ND	ND	100,000	100,000
Acetophenone	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aniline	ND	ND	ND	ND	ND	ND	ND	NS	NS
Anthracene	ND	980	ND	430	900	4000	900	100,000	100,000
Benzo (a) Anthracene	ND	**2900**	**1500**	**1400**	**3300**	**6700**	**3100**	1,000	1,000
Benzidine	ND	ND	ND	ND	ND	ND	ND	NS	NS

NS…No Standard *Shaded values represent concentration exceeding Track 1-Unrestricted Use SCOs* *ND..Not Detected*

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 2 *Continued……*

Surface Soil Samples Analytical Results

874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7		
Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Semi-Volatile Organic Compounds (µg/kg)									
Benzo (a) Pyrene	ND	**3000**	**1300**	ND	**2900**	**5800**	**2800**	1,000	1,000
Benzo (b) Fluoranthene	ND	**3700**	**1600**	ND	**4100**	**6300**	**4000**	1,000	1,000
Benzo (g,h,I) Perylene	ND	2400	610	ND	1300	3100	890	100,000	100,000
Benzo (k) Fluoranthene	ND	**1200**	590	ND	**1700**	**2300**	**1400**	800	1,000
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzyl butyl phthalate	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bis(2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bis(2-chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	ND	ND	NS	NS
Carbazole	ND	ND	ND	ND	ND	ND	920	NS	NS
Chrysene	ND	**3200**	**1500**	**1300**	**3600**	**6800**	**3300**	1,000	1,000
Dibenzo(a,h)anthracene	ND	**530**	ND	ND	**380**	ND	260	330	330
Dibenzofuran	ND	ND	ND	ND	350	ND	ND	NS	NS
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	NS	NS
Fluoranthene	14000	5100	4300	2600	7900	13000	6600	100,000	100,000
Fluorene	ND	330	ND	ND	500	2000	310	30,000	100,000
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	NS	NS
Indeno (1,2,3-cd) Pyrene	ND	**1900**	ND	**560**	**1300**	**2800**	**890**	500	500
Isophorone	ND	ND	ND	ND	ND	ND	ND	NS	NS
Naphthalene	ND	ND	ND	ND	ND	ND	ND	12,000	100,000
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
N-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	NS	NS
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND	NS	NS
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pentachloronitrobenzene	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	800	2,400
Phenanthrene	15000	4500	3300	2100	5900	17000	5000	100,000	100,000
Phenol	ND	ND	ND	ND	ND	ND	ND	330	100,000
Pyrene	12000	4900	3900	2400	6400	11000	6000	100,000	100,000
Pyridine	ND	ND	ND	ND	ND	ND	ND	NS	NS

NS…No Standard *Shaded values represent concentration exceeding Track 1-Unrestricted Use SCOs* *ND..Not Detected*

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 3
Surface Soil Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a) (µg/kg)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7		
Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Pesticides (µg/kg)									
4,4' -DDD	ND	ND	ND	ND	ND	ND	ND	3.3	2,600
4,4' -DDE	ND	ND	ND	ND	ND	ND	ND	3.3	1,800
4,4' -DDT	ND	ND	ND	ND	ND	ND	ND	3.3	1,700
a-BHC	ND	ND	ND	ND	ND	ND	ND	20	97
Alachlor	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aldrin	ND	ND	**41**	ND	ND	ND	ND	5	19
b-BHC	ND	ND	ND	ND	ND	ND	ND	36	72
Chlordane	ND	110	ND	ND	81	ND	ND	94	910
d-BHC	ND	ND	ND	ND	ND	ND	ND	40	100,000
Dieldrin	ND	ND	7.8	ND	ND	ND	ND	5	39
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	2,400	4,800
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	2,400	4,800
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	2,400	4,800
Endrin	ND	ND	ND	ND	ND	ND	ND	14	2,200
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	NS	NS
Endrin ketone	ND	ND	ND	ND	ND	ND	ND	NS	NS
g-BHC	ND	ND	ND	ND	ND	ND	ND	100	280
Heptachlor	ND	ND	ND	ND	ND	ND	ND	42	420
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	NS	NS
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	NS	NS
Toxaphene	ND	ND	ND	ND	ND	ND	ND	NS	NS
PCBs (µg/kg)									
PCB-1016	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1221	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1232	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1242	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1248	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1254	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1260	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1262	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1268	ND	ND	ND	ND	ND	ND	ND	1,000	1,000

NS…No Standard *ND…Not Detected* *Shaded values represent concentration exceeding Track 1-Unrestricted Use SCOs*
Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 4

Surface Soil Samples Analytical Results

874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a) (mg/kg)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (mg/kg)
Boring Number	1	2	3	4	5	6	7		
Sample Depth	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'	0' - 2'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
TAL Metals (mg/kg)									
Aluminum	4280	6420	7410	6540	11100	11600	7690	NS	NS
Antimony	< 3.6	<3.8	< 4.0	< 4.0	< 4.0	<3.4	< 3.9	NS	NS
Arsenic	3.5	5.8	4.9	4.5	4	4.2	8.6	13	16
Barium	27.9	145	80.8	298	141	174	286	350	350
Beryllium	<0.29	0.32	0.47	< 0.32	0.4	0.38	0.46	7.20	14
Cadmium	<0.36	0.64	< 0.40	0.55	< 0.40	0.37	1.4	2.5	2.5
Calcium	68100	24800	57500	32700	30300	18800	9090	NS	NS
Chromium	14.7	13.2	23.5	16.6	35.2	**49.2**	18.5	30	36
Cobalt	5.43	3.87	4.4	3.08	7.28	8.59	7.03	NS	NS
Copper	48.7	25	26.8	29.4	53	42.3	70.2	50	270
Iron	13600	12600	13700	12000	20200	21500	20100	NS	NS
Lead	83	182	76.9	328	207	218	**602**	63	400
Magnesium	27900	5370	9400	3090	12800	8000	2220	NS	NS
Manganese	181	386	254	259	324	320	598	1600	2,000
Nickel	12.6	10.6	15	9.68	28.4	35.8	17.6	30	140
Potassium	1130	759	1210	894	3120	4290	1010	NS	NS
Selenium	< 1.4	<1.5	< 1.6	< 1.6	< 1.6	< 1.4	< 1.6	3.9	36
Silver	< 0.50	<.38	< 0.40	< 0.40	< 0.50	<0.34	<0.50	2	36
Sodium	455	469	355	567	247	236	105	NS	NS
Thallium	< 0.6	<3.5	< 3.6	< 3.6	< 0.6	< 3.0	<0.6	NS	NS
Vanadium	58.9	20.8	26.1	21.6	35.3	42.1	33.6	NS	NS
Zinc	53.6	222	90.9	214	148	169	376	109	2,200
Mercury	< 0.07	0.42	0.24	0.8	0.25	0.21	0.7	0.18	0.81

NS…No Standard *ND…Not Detected*

Shaded values represent concentration exceeding the Unrestricted Use SCOs

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 5
Sub-Surface Soil Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-2 Duplicate	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7	2		
Sample Depth	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013	12/4/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Volatile Organic Compounds (µg/kg)										
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	680	100,000
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	270	19,000
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	330	100,000
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	3,600	47,000
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1,100	100,000
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	20	2,300
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	8,400	47,000
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	2,400	17,000
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1,800	9,800
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Acrylonitrile	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	60	2,900
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bromodichloromethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS

NS…No Standard *Bold values represent concentration exceeding the Unrestricted Use SCOs* *ND..Not Detected*

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 5 *Continued*… ….
Sub-Surface Soil Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-2 Duplicate	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7	2		
Sample Depth	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013	12/4/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Volatile Organic Compounds (µg/kg)										
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	760	1,400
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1,100	100,000
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	370	10,000
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	250	59,000
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1,000	30,000
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
m + p-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	260	100,000
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND	ND	ND	120	100,000
Methyl-Tert-Butyl-Ether (MTBE)	ND	ND	ND	ND	ND	ND	ND	ND	930	6200
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	50	51000
Naphthalene	ND	ND	ND	410	ND	ND	ND	ND	12,000	100000
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	12,000	100000
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	3,900	100,000
o-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	260	100,000
p-Isopropyltoluene	ND	15	ND	ND	ND	ND	ND	ND	NS	NS
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	11,000	100,000
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	5,900	100,000
Tetrachloroethene	ND	570	ND	9.1	ND	ND	ND	2300	1,300	10,000
Tetrahydrofuran (THF)	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	700	100,000
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	190	100,000
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
trans-1,4-dichloro-2-butene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	470	10,000
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Trichlorotrifluoroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	20	210

NS…No Standard *Shaded values represent concentration exceeding Track 1- Unrestricted Use SCOs* *ND..Not Detected*

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 6
Sub-Surface Soil Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-2 Duplicate	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7	2		
Sample Depth	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013	12/4/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Semi-Volatile Organic Compounds (µg/kg)										
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2,4-Trichlorobenzene	ND	ND	ND	330	ND	ND	ND	ND	NS	NS
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Chlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Methylnaphthalene	ND	ND	ND	610	ND	ND	410	ND	NS	NS
2-Methylphenol (o-cresol)	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
2-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
3&4-Methylphenol (m&p-cresol)	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
3-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chloroaniline	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Nitroaniline	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
4-Nitrophenol	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Acenaphthene	ND	ND	ND	1700	ND	ND	960	400	20,000	100,000
Acenaphthylene	ND	ND	ND	1100	ND	ND	ND	ND	100,000	100,000
Acetophenone	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aniline	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Anthracene	270	ND	ND	2400	ND	ND	1700	1100	100,000	100,000
Benzo (a) Anthracene	770	370	ND	**5600**	540	ND	**3400**	**2500**	1,000	1,000
Benzidine	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS

NS…No Standard *Shaded values represent concentration exceeding Track 1-Unrestricted Use SCOs* *ND..Not Detected*

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 6 *Continued…….*

Sub-Surface Soil Samples Analytical Results

874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-2 Duplicate	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7	2		
Sample Depth	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013	12/4/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Semi-Volatile Organic Compounds (µg/kg)										
Benzo (a) Pyrene	690	380	ND	**5500**	510	ND	**2800**	**2500**	1,000	1,000
Benzo (b) Fluoranthene	910	520	ND	**6900**	690	300	**3700**	**3500**	1,000	1,000
Benzo (g,h,I) Perylene	270	ND	ND	1900	280	ND	1000	1000	100,000	100,000
Benzo (k) Fluoranthene	330	ND	ND	**3000**	ND	ND	**1200**	**1200**	800	1,000
Benzoic acid	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Benzyl butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bis(2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bis(2-chloroisopropyl)ether	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Bis(2-ethylhexyl)phthalate	ND	ND	ND	320	ND	350	ND	270	NS	NS
Carbazole	ND	ND	ND	1200	ND	ND	1800	620	NS	NS
Chrysene	840	370	ND	**5900**	530	ND	**3800**	**2500**	1,000	1,000
Dibenzo(a,h)anthracene	ND	ND	ND	**650**	ND	ND	280	320	330	330
Dibenzofuran	ND	ND	ND	1600	ND	ND	840	320	NS	NS
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Dimethylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Di-n-octylphthalate	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Fluoranthene	1500	810	340	17000	1300	430	8100	4800	100,000	100,000
Fluorene	ND	ND	ND	3400	ND	ND	890	530	30,000	100,000
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Indeno (1,2,3-cd) Pyrene	ND	ND	ND	**2000**	270	ND	**910**	**1000**	500	500
Isophorone	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Naphthalene	ND	ND	ND	1400	ND	ND	1100	ND	12,000	100,000
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
N-Nitrosodimethylamine	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pentachloronitrobenzene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Pentachlorophenol	ND	ND	ND	ND	ND	ND	ND	ND	800	2,400
Phenanthrene	1200	520	ND	10000	940	340	9800	4600	100,000	100,000
Phenol	ND	ND	ND	ND	ND	ND	ND	ND	330	100,000
Pyrene	1400	680	290	15000	1100	350	7400	4000	100,000	100,000
Pyridine	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS

NS…No Standard *Shaded values represent concentration exceeding Track 1-Unrestricted Use SCOs* *ND..Not Detected*

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 7
Sub-Surface Soil Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-2 Duplicate	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a) (µg/kg)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (µg/kg)
Boring Number	1	2	3	4	5	6	7	2		
Sample Depth	12' - 14'	12' - 14'	12' - 14'	12' - 14'	12' - 14'	12' - 14'	12' - 14'	12' - 14'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013	12/4/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg		
Pesticides (µg/kg)										
4,4' -DDD	ND	ND	ND	ND	ND	ND	ND	ND	3.3	2,600
4,4' -DDE	ND	ND	ND	ND	ND	ND	ND	ND	3.3	1,800
4,4' -DDT	ND	ND	ND	ND	ND	ND	ND	ND	3.3	1,700
a-BHC	ND	ND	ND	ND	ND	ND	ND	ND	20	97
Alachlor	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Aldrin	ND	ND	ND	ND	ND	ND	ND	ND	5	19
b-BHC	ND	ND	ND	ND	ND	ND	ND	ND	36	72
Chlordane	ND	ND	ND	160	ND	ND	ND	ND	94	910
d-BHC	ND	ND	ND	ND	ND	ND	ND	ND	40	100,000
Dieldrin	ND	ND	ND	ND	ND	ND	ND	ND	5	39
Endosulfan I	ND	ND	ND	ND	ND	ND	ND	ND	2,400	4,800
Endosulfan II	ND	ND	ND	ND	ND	ND	ND	ND	2,400	4,800
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	ND	ND	2,400	4,800
Endrin	ND	ND	ND	ND	ND	ND	ND	ND	14	2,200
Endrin aldehyde	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Endrin ketone	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
g-BHC	ND	ND	ND	ND	ND	ND	ND	ND	100	280
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	42	420
Heptachlor epoxide	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
Toxaphene	ND	ND	ND	ND	ND	ND	ND	ND	NS	NS
PCBs (µg/kg)										
PCB-1016	ND	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1221	ND	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1232	ND	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1242	ND	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1248	ND	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1260	ND	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1262	ND	ND	ND	ND	ND	ND	ND	ND	1,000	1,000
PCB-1268	ND	ND	ND	ND	ND	ND	ND	ND	1,000	1,000

NS…No Standard ND…Not Detected Shaded values represent concentration exceeding Track 1-Unrestricted Use SCOs
Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

Table 8

Sub-Surface Soil Samples Analytical Results

874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-2 Duplicate	Track 1 Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a) (mg/kg)	Restricted Use Soil Cleanup Objectives Part 375-6.8(b) Residential (mg/kg)
Boring Number	1	2	3	4	5	6	7	2		
Sample Depth	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'	10' - 12'		
Sample Date	12/6/2013	12/4/2013	12/4/2013	12/4/2013	12/6/2013	12/4/2013	12/6/2013	12/4/2013		
Sample Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil		
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
TAL Metals (mg/kg)										
Aluminum	5330	4020	4430	5870	8420	10300	7000	4380	NS	NS
Antimony	< 3.7	3.4	< 3.2	< 3.8	< 3.5	< 3.3	< 4.0	< 3.4	NS	NS
Arsenic	1.5	1.9	2.3	5.1	4.6	3.5	8.1	3	13	16
Barium	55.4	46.3	30.4	121	80.2	87.6	113	39.7	350	350
Beryllium	0.38	0.34	0.37	0.48	0.42	0.37	0.43	<0.28	7.20	14
Cadmium	<0.37	<0.34	<0.32	0.65	< 0.35	<0.33	**9.92**	0.36	2.5	2.5
Calcium	3990	1920	21300	8690	30000	31100	31200	3980	NS	NS
Chromium	12.9	11	15.8	18.4	18	24.2	15.4	12.9	30	36
Cobalt	5.77	4.97	3.48	9.29	4.12	4.62	6.84	3.99	NS	NS
Copper	16.4	15.7	11.1	39.9	16	55.9	36	16.4	50	270
Iron	25900	20500	16500	34000	13200	15100	36200	21900	NS	NS
Lead	21.1	15.7	12.8	38.6	77.3	39.8	**568**	23.9	63	400
Magnesium	2730	1310	6980	2800	8390	4140	2940	1660	NS	NS
Manganese	905	672	333	1350	386	253	525	387	1600	2,000
Nickel	13.7	10.4	8.19	23.1	11 .4	16.6	12.7	9.99	30	140
Potassium	825	625	671	933	1520	2150	1520	629	NS	NS
Selenium	< 1.5	1.4	< 1.3	< 1.5	< 1.4	< 1.3	< 1.6	< 1.4	3.9	36
Silver	< 0.50	< 0.34	<0.32	< 0.38	<0.50	<0.33	< 0.50	< 0.34	2	36
Sodium	88.8	78.6	117	113	841	751	206	137	NS	NS
Thallium	< 0.6	3.1	< 2.9	< 3.4	< 0.6	< 3.0	< 0.6	< 3.1	NS	NS
Vanadium	22.8	17.7	17.1	32.6	23.9	25.4	32.5	16.2	NS	NS
Zinc	39	46.9	27.9	87.1	56.2	53.1	**3000**	69.6	109	2,200
Mercury	< 0.07	< .07	<0.07	< 0.09	0.1	< 0.07	0.48	<0.06	0.18	0.81

NS…No Standard *ND…Not Detected*

Shaded values represent concentration exceeding Track 1-Unrestricted Use SCOs

Shaded & bold values represent concentration exceeding the Restricted Use SCOs Residential

TABLES

GROUNDWATER ANALYTICAL RESULTS

Table 9
Groundwater Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn, NY

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-3 Duplicate	NYSDEC Ambient Groundwater Quality Standards (µg/L)
Boring Number	SB-1	SB-2	SB-7	SB-4	SB-7	
Depth to Groundwater	55'	55'	55'	55'	55'	
Sample Date	12/6/2013	12/4/2013	12/6/2013	12/6/2013	12/6/2013	
Sample Matrix	GW	GW	GW	GW	GW	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	
Volatile Organic Compounds (µg/L)						
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	NS
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	NS
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	NS
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	NS
1,1-Dichloroethane	ND	ND	ND	ND	ND	NS
1,1-Dichloroethene	ND	ND	ND	ND	ND	NS
1,1-Dichloropropene	ND	ND	ND	ND	ND	NS
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	NS
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	NS
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	NS
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	5
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	NS
1,2-Dibromoethane	ND	ND	ND	ND	ND	NS
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	NS
1,2-Dichloroethane	ND	ND	ND	ND	ND	NS
1,2-Dichloropropane	ND	ND	ND	ND	ND	NS
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	5
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	NS
1,3-Dichloropropane	ND	ND	ND	ND	ND	NS
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	NS
2,2-Dichloropropane	ND	ND	ND	ND	ND	NS
2-Chlorotoluene	ND	ND	ND	ND	ND	NS
2-Hexanone	ND	ND	ND	ND	ND	NS
2-Isopropyltoluene	ND	ND	ND	ND	ND	NS
4-Chlorotoluene	ND	ND	ND	ND	ND	NS
4-Methyl-2-pentanone	ND	ND	ND	ND	ND	NS
Acetone	ND	ND	ND	ND	ND	50
Acrylonitrile	ND	ND	ND	ND	ND	NS
Benzene	ND	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	NS
Bromochloromethane	ND	ND	ND	ND	ND	NS
Bromodichloromethane	ND	ND	ND	ND	ND	NS
Bromoform	ND	ND	ND	ND	ND	NS
Bromomethane	ND	ND	ND	ND	ND	NS
Carbon Disulfide	ND	ND	ND	ND	ND	NS
Carbon tetrachloride	ND	ND	ND	ND	ND	NS
Chlorobenzene	ND	ND	ND	ND	ND	5
Chloroethane	ND	ND	ND	ND	ND	5
Chloroform	ND	5.7	ND	ND	ND	7
Chloromethane	ND	ND	ND	ND	ND	NS
cis-1,2-Dichloroethene	ND	1.5	1.8	ND	1.7	NS
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	NS
Dibromochloromethane	ND	ND	ND	ND	ND	NS
Dibromomethane	ND	ND	ND	ND	ND	NS
Dichlorodifluoromethane	ND	ND	ND	ND	ND	NS
Ethylbenzene	ND	ND	ND	ND	ND	5
Hexachlorobutadiene	ND	ND	ND	ND	ND	NS
Isopropylbenzene	ND	ND	ND	ND	ND	5
m + p-Xylene	ND	ND	ND	ND	ND	5
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	NS
Methyl-Tert-Butyl-Ether (MTBE)	ND	ND	ND	ND	ND	10
Methylene chloride	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	NS
n-Butylbenzene	ND	ND	ND	ND	ND	5
n-Propylbenzene	ND	ND	ND	ND	ND	5
o-Xylene	ND	ND	ND	ND	ND	5
p-Isopropyltoluene	ND	ND	ND	ND	ND	5
sec-Butylbenzene	**51**	ND	ND	ND	ND	5
Styrene	ND	ND	ND	ND	ND	NS
tert-Butylbenzene	1.1	ND	ND	ND	ND	5
Tetrachloroethene	ND	**30**	**150**	**160**	**120**	5
Tetrahydrofuran (THF)	ND	ND	ND	ND	ND	NS
Toluene	ND	ND	ND	ND	ND	5
Total Xylenes	ND	ND	ND	ND	ND	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	NS
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	NS
trans-1,4-dichloro-2-butene	ND	ND	ND	ND	ND	NS
Trichloroethene	ND	ND	2.8	1.3	2.8	5
Trichlorofluoromethane	ND	ND	ND	ND	ND	NS
Trichlorotrifluoroethane	ND	ND	ND	ND	ND	NS
Vinyl chloride	ND	ND	ND	ND	ND	2

NS…No Standard *ND…Not Detected*

Shaded & bold values represent concentration exceeding the NYSDEC Ambient Groundwater Quality Standards

Table 10
Groundwater Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn, NY

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-3 Duplicate	NYSDEC Ambient Groundwater Quality Standards (µg/L)
Boring Number	SB-1	SB-2	SB-7	SB-4	SB-7	
Depth to Groundwater	55'	55'	55'	55'	55'	
Sample Date	12/6/2013	12/4/2013	12/6/2013	12/6/2013	12/6/2013	
Sample Matrix	GW	GW	GW	GW	GW	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	
Semi-Volatile Organic Compounds (µg/L)						
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	NS
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	NS
1,2-Diphenylhydrazine	ND	ND	ND	ND	ND	NS
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	NS
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	NS
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	NS
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	NS
2,4-Dichlorophenol	ND	ND	ND	ND	ND	NS
2,4-Dimethylphenol	ND	ND	ND	ND	ND	NS
2,4-Dinitrophenol	ND	ND	ND	ND	ND	NS
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	NS
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	NS
2-Chloronaphthalene	ND	ND	ND	ND	ND	NS
2-Chlorophenol	ND	ND	ND	ND	ND	NS
2-Methylnaphthalene	ND	ND	ND	ND	ND	NS
2-Methylphenol (o-cresol)	ND	ND	ND	ND	ND	NS
2-Nitroaniline	ND	ND	ND	ND	ND	NS
2-Nitrophenol	ND	ND	ND	ND	ND	NS
3&4-Methylphenol (m&p-cresol)	ND	ND	ND	ND	ND	NS
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	NS
3-Nitroaniline	ND	ND	ND	ND	ND	NS
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	NS
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	NS
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	NS
4-Chloroaniline	ND	ND	ND	ND	ND	NS
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	NS
4-Nitroaniline	ND	ND	ND	ND	ND	NS
4-Nitrophenol	ND	ND	ND	ND	ND	NS
Acetophenone	ND	ND	ND	ND	ND	20
Aniline	ND	ND	ND	ND	ND	NS
Anthracene	ND	ND	ND	ND	ND	50
Benzidine	ND	ND	ND	ND	ND	NS
Benzoic acid	ND	ND	ND	ND	ND	NS
Benzyl butyl phthalate	ND	ND	ND	ND	ND	50
Bis(2-chloroethoxy)methane	ND	ND	ND	ND	ND	NS
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	NS
Bis(2-chloroisopropyl)ether	ND	ND	ND	ND	ND	1
Carbazole	ND	ND	ND	ND	ND	NS
Dibenzofuran	ND	ND	ND	ND	ND	NS
Diethyl phthalate	ND	ND	ND	ND	ND	50
Dimethylphthalate	ND	ND	ND	ND	ND	50
Di-n-butylphthalate	ND	7	ND	ND	ND	50
Di-n-octylphthalate	ND	ND	ND	ND	ND	NS
Fluoranthene	ND	ND	ND	ND	ND	50
Fluorene	ND	ND	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	ND	ND	NS
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	5
Isophorone	ND	ND	ND	ND	ND	50
Naphthalene	ND	ND	ND	ND	ND	10
Nitrobenzene	ND	ND	ND	ND	ND	0.4
N-Nitrosodimethylamine	ND	ND	ND	ND	ND	NS
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	NS
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	NS
Phenol	ND	ND	ND	ND	ND	1
Pyrene	ND	ND	ND	ND	ND	50
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	ND	ND	NS
Acenaphthene	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	NS
Benz (a) Anthracene	0.03	0.02	0.03	0.02	0.02	0.002
Benzo (a) Pyrene	ND	ND	ND	ND	ND	0.002
Benzo (b) Fluoranthene	ND	ND	ND	ND	ND	0.002
Benzo (g,h,I) Perylene	ND	ND	ND	ND	ND	5
Benzo (k) Fluoranthene	ND	ND	ND	ND	ND	0.002
Bis (2-ethylhexyl) Phthalate	ND	ND	ND	2.6	ND	5
Chrysene	ND	ND	ND	ND	ND	0.002
Dibenz(a,h) Anthracene	ND	ND	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	ND	ND	0.04
Hexachloroethane	ND	ND	ND	ND	ND	0.5
Indeno (1,2,3-cd) Pyrene	ND	ND	ND	ND	ND	0.002
Pentachloronitrobenzene	ND	ND	ND	ND	ND	NS
Pentachlorophenol	ND	ND	ND	ND	ND	1
Phenanthrene	0.11	0.05	ND	0.06	ND	50
Pyridine	ND	ND	ND	ND	ND	50

NS…No Standard *ND…Not Detected*

Shaded & bold values represent concentration exceeding the NYSDEC Ambient Groundwater Quality Standards

Table 11
Groundwater Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn, NY

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-3 Duplicate	NYSDEC Ambient Groundwater Quality Standards (µg/L)
Boring Number	SB-1	SB-5	SB-3	SB-8	SB-3	
Sample Depth	55'	55'	55'	55'	55'	
Sample Date	12/6/2013	12/4/2013	12/6/2013	12/12/2013	12/6/2013	
Sample Matrix	GW	GW	GW	GW	GW	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	
Pesticides (µg/kg)						
4,4' -DDD	ND	ND	ND	ND	ND	0.3
4,4' -DDE	ND	ND	ND	ND	ND	0.2
4,4' -DDT	ND	ND	ND	ND	ND	0.11
a-BHC	ND	ND	ND	ND	ND	0.94
Alachlor	ND	ND	ND	ND	ND	NS
Aldrin	ND	ND	ND	ND	ND	19
b-BHC	ND	ND	ND	ND	ND	0.04
Chlordane	ND	ND	ND	ND	ND	0.5
d-BHC	ND	ND	ND	ND	ND	0.05
Dieldrin	ND	ND	ND	ND	ND	0.004
Endosulfan I	ND	ND	ND	ND	ND	0.009
Endosulfan II	ND	ND	ND	ND	ND	0.009
Endosulfan sulfate	ND	ND	ND	ND	ND	NS
Endrin	ND	ND	ND	ND	ND	0.2
Endrin aldehyde	ND	ND	ND	ND	ND	5
Endrin ketone	ND	ND	ND	ND	ND	NS
g-BHC	ND	ND	ND	ND	ND	0.05
Heptachlor	ND	ND	ND	ND	ND	0.04
Heptachlor epoxide	ND	ND	ND	ND	ND	0.03
Methoxychlor	ND	ND	ND	ND	ND	35
Toxaphene	ND	ND	ND	ND	ND	NS
PCBs (µg/kg)						
PCB-1016	ND	ND	ND	ND	ND	0.09
PCB-1221	ND	ND	ND	ND	ND	0.09
PCB-1232	ND	ND	ND	ND	ND	0.09
PCB-1242	ND	ND	ND	ND	ND	0.09
PCB-1248	ND	ND	ND	ND	ND	0.09
PCB-1254	ND	ND	ND	ND	ND	0.09
PCB-1260	ND	ND	ND	ND	ND	0.09
PCB-1262	ND	ND	ND	ND	ND	0.09
PCB-1268	ND	ND	ND	ND	ND	0.09

NS…No Standard *ND…Not Detected*

Shaded & bold values represent concentration exceeding the NYSDEC Ambient Groundwater Quality Standards

Table 12
Groundwater Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn, NY

Sample Identification	MW-1	MW-2	MW-3	MW-4	MW-3 Duplicate	NYSDEC Ambient Groundwater Quality Standards (µg/L)
Boring Number	SB-1	SB-5	SB-3	SB-8	SB-3	
Sample Depth	55'	55'	55'	55'	55'	
Sample Date	12/6/2013	12/4/2013	12/6/2013	12/12/2013	12/6/2013	
Sample Matrix	GW	GW	GW	GW	GW	
Units	ug/L	ug/L	ug/L	ug/L	ug/L	
TAL Metals (mg/kg)						
Aluminum	0.06	60.5	0.1	0.178	< 0.010	200
Antimony	< 0.005	0.009	< 0.005	< 0.005	< 0.005	3
Arsenic	< 0.004	0.015	< 0.004	< 0.004	< 0.004	25
Barium	0.109	0.712	0.076	0.044	0.067	1000
Beryllium	< 0.001	0.003	< 0.001	< 0.001	< 0.001	3
Cadmium	< 0.001	0.003	< 0.001	< 0.001	< 0.001	5
Calcium	107	63.5	62.1	27.6	57.2	NS
Chromium	< 0.001	0.25	< 0.001	< 0.001	< 0.001	50
Cobalt	0.007	0.129	0.015	0.007	0.012	NS
Copper	< 0.005	0.248	< 0.005	< 0.005	< 0.005	200
Iron	0.224	225	0.247	0.167	0.055	300
Lead	< 0.002	0.085	< 0.002	< 0.002	< 0.002	25
Magnesium	18.2	36.4	16.7	7.46	15.5	35,000
Manganese	3.41	11.7	2.86	2.4	2.29	300
Nickel	0.028	0.189	0.028	0.017	0.025	100
Potassium	6.9	16.7	4.2	4.4	3.9	NS
Selenium	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	10
Silver	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	50
Sodium	83	34.1	79.6	125	81.6	20,000
Thallium	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.5
Vanadium	< 0.002	0.183	< 0.002	< 0.002	< 0.002	NS
Zinc	< 0.002	0.288	0.006	0.004	0.005	2,000
Mercury	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.7

NS…No Standard *ND…Not Detected*

Shaded & bold values represent concentration exceeding the NYSDEC Ambient Groundwater Quality Standards

TABLES

SOIL VAPOR RESULTS

Table 13
Soil Vapor Samples Analytical Results
874 - 876 Willoughby Avenue, Brooklyn NY

Sample Identification	SV-1	SV-2	SV-3	SV-4	SV-5
Boring Number	1	2	3	4	5
Sample Date	12/6/2013	12/6/2013	12/6/2013	12/6/2013	12/6/2013
Sample Matrix	Air	Air	Air	Air	Air
Units	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Volatile Organic Compounds (ug/m3)					
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.42	ND	27.5	1.31	90
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	9.63	ND	ND	11.7
1,2,4-Trimethylbenzene	7.81	ND	14.3	8.25	ND
1,2-Dibromoethane(EDB)	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND
1,2-dichloropropane	ND	ND	ND	ND	ND
1,2-Dichlorotetrafluoroethane	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	3.05	ND	4.91	2.46	4.08
1,3-Butadiene	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	ND
2-Hexanone(MBK)	ND	ND	ND	ND	ND
4-Ethyltoluene	5.16	ND	6.68	3.54	7.07
4-Isopropyltoluene	ND	7.68	ND	ND	ND
4-Methyl-2-pentanone(MIBK)	ND	12.2	1.43	ND	1.76
Acetone	42.2	70	37.7	15.1	43.7
Acrylonitrile	ND	ND	ND	ND	ND
Benzene	9.39	11.6	7.12	4.37	8.72
Benzyl chloride	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND
Carbon Disulfide	5.01	5.57	3.58	4.82	6.81
Carbon Tetrachloride	0.314	ND	0.251	0.251	ND
Chlorobenzene	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND
Chloroform	18.3	ND	ND	1.66	4.49
Chloromethane	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethene	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND
Cyclohexane	2.1	1.79	ND	1.58	1.27
Dibromochloromethane	ND	ND	ND	ND	ND
Dichlorodifluoromethane	1.63	1.98	8.5	2.96	11
Ethanol	16.4	5.97	16.6	8.06	10.4
Ethyl acetate	ND	ND	ND	ND	ND
Ethylbenzene	38.5	40.9	36.2	10.7	33.7
Heptane	11.6	12.2	9.05	2.78	9.62
Hexachlorobutadiene	ND	ND	ND	ND	ND
Hexane	10	12.3	7.15	3.38	7.92
Isopropylalcohol	ND	ND	ND	ND	ND
Isopropylbenzene	2.16	ND	2.21	ND	2.21
m,p-Xylene	88.5	91.1	92.4	32.5	87.2
Methyl Ethyl Ketone	7.13	8.05	4.24	ND	6.4
Methyl tert-butyl ether(MTBE)	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND
n-Butylbenzene	ND	ND	ND	ND	ND
o-Xylene	27.7	33.2	29.3	10.3	27.7
Propylene	ND	18.4	2.22	7.76	5.31
sec-Butylbenzene	ND	ND	ND	ND	ND
Styrene	118	106	111	32.2	121
Tetrachloroethene	148	164	124	43.2	80.7
Tetrahydrofuran	8.13	10.5	5.25	ND	9.31
Toluene	166	215	137	33.7	123
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND
Trichloroethene	0.483	9.99	0.698	0.268	0.483
Trichlorofluoromethane	ND	ND	3.93	2.7	67.4
Trichlorotrifluoroethane	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND

ND…Not Detected

APPENDIX

PHOTOGRAPHS

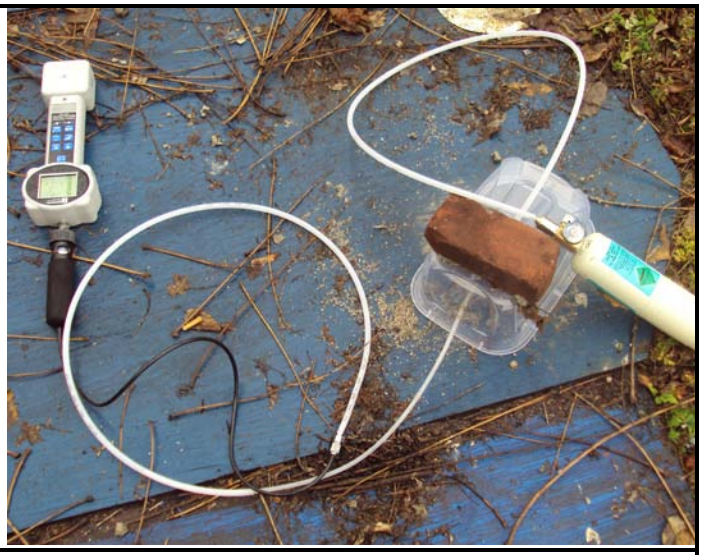
Subject Property (872 – 874 Willoughby Avenue)

GPR Survey

Installation of MW-2

Soil Boring SB-1

Location of Soil Boring SB-5



Location of SV-1

APPENDIX

LABORATORY ANALYTICAL RESULTS

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/06/13	13:22
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86242

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	12/10/13	LK	SW6010
Aluminum	4280	54	mg/Kg	12/10/13	LK	SW6010
Arsenic	3.5	0.7	mg/Kg	12/10/13	LK	SW6010
Barium	27.9	0.36	mg/Kg	12/10/13	LK	SW6010
Beryllium	< 0.29	0.29	mg/Kg	12/10/13	LK	SW6010
Calcium	68100	54	mg/Kg	12/10/13	LK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	12/10/13	LK	SW6010
Cobalt	5.43	0.36	mg/Kg	12/10/13	LK	SW6010
Chromium	14.7	0.36	mg/Kg	12/10/13	LK	SW6010
Copper	48.7	0.36	mg/kg	12/10/13	LK	SW6010
Iron	13600	54	mg/Kg	12/10/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	12/10/13	RS	SW-7471
Potassium	1130	5.4	mg/Kg	12/10/13	LK	SW6010
Magnesium	27900	54	mg/Kg	12/10/13	LK	SW6010
Manganese	181	3.6	mg/Kg	12/10/13	LK	SW6010
Sodium	455	5.4	mg/Kg	12/11/13	EK	SW6010
Nickel	12.6	0.36	mg/Kg	12/10/13	LK	SW6010
Lead	83.0	0.36	mg/Kg	12/10/13	LK	SW6010
Antimony	< 3.6	3.6	mg/Kg	12/10/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	12/10/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	12/10/13	LK	SW6010
Vanadium	58.9	0.36	mg/Kg	12/10/13	LK	SW6010
Zinc	53.6	0.36	mg/Kg	12/10/13	LK	SW6010
Percent Solid	92		%	12/09/13	I	E160.3
Soil Extraction for PCB	Completed			12/09/13	BB	SW3545
Soil Extraction for Pesticide	Completed			12/09/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			12/09/13	BJ/FV	SW3545
Mercury Digestion	Completed			12/10/13	I/I	SW7471

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (0-2)

Phoenix I.D.: BF86242

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/09/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	350	ug/Kg	12/10/13	AW	SW 8082	
PCB-1221	ND	350	ug/Kg	12/10/13	AW	SW 8082	
PCB-1232	ND	350	ug/Kg	12/10/13	AW	SW 8082	
PCB-1242	ND	350	ug/Kg	12/10/13	AW	SW 8082	
PCB-1248	ND	350	ug/Kg	12/10/13	AW	SW 8082	
PCB-1254	ND	350	ug/Kg	12/10/13	AW	SW 8082	
PCB-1260	ND	350	ug/Kg	12/10/13	AW	SW 8082	
PCB-1262	ND	350	ug/Kg	12/10/13	AW	SW 8082	
PCB-1268	ND	350	ug/Kg	12/10/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	96		%	12/10/13	AW	30 - 150 %	
% TCMX	137		%	12/10/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDE	ND	34	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDT	ND	34	ug/Kg	12/10/13	KCA	SW8081	
a-BHC	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Alachlor	ND	17	ug/Kg	12/10/13	KCA	SW8081	1
Aldrin	ND	5.3	ug/Kg	12/10/13	KCA	SW8081	
b-BHC	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Chlordane	ND	53	ug/Kg	12/10/13	KCA	SW8081	
d-BHC	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Dieldrin	ND	5.3	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan I	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan II	ND	34	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	12/10/13	KCA	SW8081	
Endrin	ND	34	ug/Kg	12/10/13	KCA	SW8081	
Endrin aldehyde	ND	34	ug/Kg	12/10/13	KCA	SW8081	
Endrin ketone	ND	34	ug/Kg	12/10/13	KCA	SW8081	
g-BHC	ND	5.3	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor	ND	11	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Methoxychlor	ND	170	ug/Kg	12/10/13	KCA	SW8081	
Toxaphene	ND	170	ug/Kg	12/10/13	KCA	SW8081	
QA/QC Surrogates							
% DCBP	103		%	12/10/13	KCA	30 - 150 %	
% TCMX	89		%	12/10/13	KCA	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1,1-Trichloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	6.8	ug/Kg	12/09/13	HM	SW8260	
1,1,2-Trichloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloropropene	ND	11	ug/Kg	12/09/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (0-2)

Phoenix I.D.: BF86242

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2,3-Trichloropropane	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2-Dibromoethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2-Dichloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichloropropane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,3-Dichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,3-Dichloropropane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,4-Dichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
2,2-Dichloropropane	ND	11	ug/Kg	12/09/13	HM	SW8260	
2-Chlorotoluene	ND	280	ug/Kg	12/10/13	HM	SW8260	
2-Hexanone	ND	57	ug/Kg	12/09/13	HM	SW8260	
2-Isopropyltoluene	ND	280	ug/Kg	12/10/13	HM	SW8260	1
4-Chlorotoluene	ND	280	ug/Kg	12/10/13	HM	SW8260	
4-Methyl-2-pentanone	ND	57	ug/Kg	12/09/13	HM	SW8260	
Acetone	ND	68	ug/Kg	12/09/13	HM	SW8260	
Acrylonitrile	ND	11	ug/Kg	12/09/13	HM	SW8260	
Benzene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Bromobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
Bromochloromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Bromodichloromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Bromoform	ND	11	ug/Kg	12/09/13	HM	SW8260	
Bromomethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Carbon Disulfide	ND	11	ug/Kg	12/09/13	HM	SW8260	
Carbon tetrachloride	ND	11	ug/Kg	12/09/13	HM	SW8260	
Chlorobenzene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Chloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Chloroform	ND	11	ug/Kg	12/09/13	HM	SW8260	
Chloromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Dibromochloromethane	ND	6.8	ug/Kg	12/09/13	HM	SW8260	
Dibromomethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Dichlorodifluoromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Ethylbenzene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Hexachlorobutadiene	ND	280	ug/Kg	12/10/13	HM	SW8260	
Isopropylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
m&p-Xylene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Methyl Ethyl Ketone	ND	68	ug/Kg	12/09/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	23	ug/Kg	12/09/13	HM	SW8260	
Methylene chloride	ND	11	ug/Kg	12/09/13	HM	SW8260	
Naphthalene	ND	280	ug/Kg	12/10/13	HM	SW8260	
n-Butylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
n-Propylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
o-Xylene	ND	11	ug/Kg	12/09/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (0-2)

Phoenix I.D.: BF86242

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	280	ug/Kg	12/10/13	HM	SW8260	
sec-Butylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
Styrene	ND	11	ug/Kg	12/09/13	HM	SW8260	
tert-Butylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
Tetrachloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	23	ug/Kg	12/09/13	HM	SW8260	1
Toluene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Total Xylenes	ND	11	ug/Kg	12/09/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	11	ug/Kg	12/09/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	560	ug/Kg	12/10/13	HM	SW8260	
Trichloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Trichlorofluoromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Trichlorotrifluoroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Vinyl chloride	ND	11	ug/Kg	12/09/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	12/10/13	HM	70 - 130 %	
% Bromofluorobenzene	88		%	12/10/13	HM	70 - 130 %	
% Dibromofluoromethane	93		%	12/09/13	HM	70 - 130 %	
% Toluene-d8	92		%	12/09/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	6300	ug/Kg	12/11/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	6300	ug/Kg	12/11/13	DD	SW 8270
1,2-Dichlorobenzene	ND	6300	ug/Kg	12/11/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	9000	ug/Kg	12/11/13	DD	SW 8270
1,3-Dichlorobenzene	ND	6300	ug/Kg	12/11/13	DD	SW 8270
1,4-Dichlorobenzene	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2,4-Dichlorophenol	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2,4-Dimethylphenol	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2,4-Dinitrophenol	ND	14000	ug/Kg	12/11/13	DD	SW 8270
2,4-Dinitrotoluene	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2,6-Dinitrotoluene	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2-Chloronaphthalene	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2-Chlorophenol	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2-Methylnaphthalene	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	6300	ug/Kg	12/11/13	DD	SW 8270
2-Nitroaniline	ND	14000	ug/Kg	12/11/13	DD	SW 8270
2-Nitrophenol	ND	6300	ug/Kg	12/11/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	9000	ug/Kg	12/11/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	6300	ug/Kg	12/11/13	DD	SW 8270
3-Nitroaniline	ND	14000	ug/Kg	12/11/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	26000	ug/Kg	12/11/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	9000	ug/Kg	12/11/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	6300	ug/Kg	12/11/13	DD	SW 8270
4-Chloroaniline	ND	6300	ug/Kg	12/11/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	6300	ug/Kg	12/11/13	DD	SW 8270
4-Nitroaniline	ND	14000	ug/Kg	12/11/13	DD	SW 8270

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (0-2)

Phoenix I.D.: BF86242

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	26000	ug/Kg	12/11/13	DD	SW 8270	
Acenaphthene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Acenaphthylene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Acetophenone	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Aniline	ND	26000	ug/Kg	12/11/13	DD	SW 8270	
Anthracene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Benz(a)anthracene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Benzidine	ND	11000	ug/Kg	12/11/13	DD	SW 8270	
Benzo(a)pyrene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Benzo(ghi)perylene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Benzoic acid	ND	26000	ug/Kg	12/11/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	9000	ug/Kg	12/11/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	6300	ug/Kg	12/11/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Carbazole	ND	13000	ug/Kg	12/11/13	DD	SW 8270	
Chrysene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Dibenzofuran	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Diethyl phthalate	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Dimethylphthalate	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Di-n-butylphthalate	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Di-n-octylphthalate	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Fluoranthene	14000	6300	ug/Kg	12/11/13	DD	SW 8270	
Fluorene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Hexachlorobenzene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Hexachlorobutadiene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Hexachloroethane	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Isophorone	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Naphthalene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Nitrobenzene	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	9000	ug/Kg	12/11/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	9000	ug/Kg	12/11/13	DD	SW 8270	
Pentachloronitrobenzene	ND	9000	ug/Kg	12/11/13	DD	SW 8270	
Pentachlorophenol	ND	9000	ug/Kg	12/11/13	DD	SW 8270	
Phenanthrene	15000	6300	ug/Kg	12/11/13	DD	SW 8270	
Phenol	ND	6300	ug/Kg	12/11/13	DD	SW 8270	
Pyrene	12000	6300	ug/Kg	12/11/13	DD	SW 8270	
Pyridine	ND	9000	ug/Kg	12/11/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	*Diluted Out		%	12/11/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	*Diluted Out		%	12/11/13	DD	30 - 130 %	
% 2-Fluorophenol	*Diluted Out		%	12/11/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (0-2)

Phoenix I.D.: BF86242

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	*Diluted Out		%	12/11/13	DD	30 - 130 %
% Phenol-d5	*Diluted Out		%	12/11/13	DD	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	12/11/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

8260 Analysis:
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.

* 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 for the semivolatile analysis.

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.
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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/06/13	13:35
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86243

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (10-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	12/10/13	LK	SW6010
Aluminum	5330	55	mg/Kg	12/10/13	LK	SW6010
Arsenic	1.5	0.7	mg/Kg	12/10/13	LK	SW6010
Barium	55.4	0.37	mg/Kg	12/10/13	LK	SW6010
Beryllium	0.38	0.29	mg/Kg	12/10/13	LK	SW6010
Calcium	3990	5.5	mg/Kg	12/10/13	LK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	12/10/13	LK	SW6010
Cobalt	5.77	0.37	mg/Kg	12/10/13	LK	SW6010
Chromium	12.9	0.37	mg/Kg	12/10/13	LK	SW6010
Copper	16.4	0.37	mg/kg	12/10/13	LK	SW6010
Iron	25900	55	mg/Kg	12/10/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	12/10/13	RS	SW-7471
Potassium	825	5.5	mg/Kg	12/10/13	LK	SW6010
Magnesium	2730	5.5	mg/Kg	12/10/13	LK	SW6010
Manganese	905	3.7	mg/Kg	12/10/13	LK	SW6010
Sodium	88.8	5.5	mg/Kg	12/11/13	EK	SW6010
Nickel	13.7	0.37	mg/Kg	12/10/13	LK	SW6010
Lead	21.1	0.37	mg/Kg	12/10/13	LK	SW6010
Antimony	< 3.7	3.7	mg/Kg	12/10/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	12/10/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	12/10/13	LK	SW6010
Vanadium	22.8	0.37	mg/Kg	12/10/13	LK	SW6010
Zinc	39.0	0.37	mg/Kg	12/10/13	LK	SW6010
Percent Solid	90		%	12/09/13	I	E160.3
Soil Extraction for PCB	Completed			12/09/13	BB	SW3545
Soil Extraction for Pesticide	Completed			12/09/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			12/09/13	BJ/FV	SW3545
Mercury Digestion	Completed			12/10/13	I/I	SW7471

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (10-12)

Phoenix I.D.: BF86243

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/09/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1221	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1232	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1242	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1248	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1254	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1260	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1262	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1268	ND	370	ug/Kg	12/10/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	82		%	12/10/13	AW	30 - 150 %	
% TCMX	114		%	12/10/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	35	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDE	ND	35	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDT	ND	35	ug/Kg	12/10/13	KCA	SW8081	
a-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Alachlor	ND	18	ug/Kg	12/10/13	KCA	SW8081	1
Aldrin	ND	5.5	ug/Kg	12/10/13	KCA	SW8081	
b-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Chlordane	ND	55	ug/Kg	12/10/13	KCA	SW8081	
d-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Dieldrin	ND	5.5	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan I	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan II	ND	35	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan sulfate	ND	35	ug/Kg	12/10/13	KCA	SW8081	
Endrin	ND	35	ug/Kg	12/10/13	KCA	SW8081	
Endrin aldehyde	ND	35	ug/Kg	12/10/13	KCA	SW8081	
Endrin ketone	ND	35	ug/Kg	12/10/13	KCA	SW8081	
g-BHC	ND	5.5	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor	ND	11	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Methoxychlor	ND	180	ug/Kg	12/10/13	KCA	SW8081	
Toxaphene	ND	180	ug/Kg	12/10/13	KCA	SW8081	
QA/QC Surrogates							
% DCBP	83		%	12/10/13	KCA	30 - 150 %	
% TCMX	84		%	12/10/13	KCA	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,1,1-Trichloroethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.8	ug/Kg	12/09/13	HM	SW8260	
1,1,2-Trichloroethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloropropene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (10-12)

Phoenix I.D.: BF86243

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,2,3-Trichloropropane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,2-Dibromoethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichlorobenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichloroethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichloropropane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,3-Dichlorobenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,3-Dichloropropane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
1,4-Dichlorobenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
2,2-Dichloropropane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
2-Chlorotoluene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
2-Hexanone	ND	49	ug/Kg	12/09/13	HM	SW8260	
2-Isopropyltoluene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	1
4-Chlorotoluene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
4-Methyl-2-pentanone	ND	49	ug/Kg	12/09/13	HM	SW8260	
Acetone	ND	58	ug/Kg	12/09/13	HM	SW8260	
Acrylonitrile	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Benzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Bromobenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Bromochloromethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Bromodichloromethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Bromoform	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Bromomethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Carbon Disulfide	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Carbon tetrachloride	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Chlorobenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Chloroethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Chloroform	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Chloromethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Dibromochloromethane	ND	5.8	ug/Kg	12/09/13	HM	SW8260	
Dibromomethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Dichlorodifluoromethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Ethylbenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Hexachlorobutadiene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Isopropylbenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
m&p-Xylene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Methyl Ethyl Ketone	ND	58	ug/Kg	12/09/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	19	ug/Kg	12/09/13	HM	SW8260	
Methylene chloride	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Naphthalene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
n-Butylbenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
n-Propylbenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
o-Xylene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
sec-Butylbenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Styrene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
tert-Butylbenzene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Tetrachloroethene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	19	ug/Kg	12/09/13	HM	SW8260	1
Toluene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Total Xylenes	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	19	ug/Kg	12/09/13	HM	SW8260	
Trichloroethene	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Trichlorofluoromethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Trichlorotrifluoroethane	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
Vinyl chloride	ND	9.7	ug/Kg	12/09/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	12/09/13	HM	70 - 130 %	
% Bromofluorobenzene	89		%	12/09/13	HM	70 - 130 %	
% Dibromofluoromethane	110		%	12/09/13	HM	70 - 130 %	
% Toluene-d8	95		%	12/09/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	360	ug/Kg	12/10/13	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	12/10/13	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	12/10/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	12/10/13	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	12/10/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	12/10/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	12/10/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	12/10/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	12/10/13	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	12/10/13	DD	SW 8270

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (10-12)

Phoenix I.D.: BF86243

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1000	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthylene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Acetophenone	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Aniline	ND	1000	ug/Kg	12/10/13	DD	SW 8270	
Anthracene	270	250	ug/Kg	12/10/13	DD	SW 8270	
Benz(a)anthracene	770	250	ug/Kg	12/10/13	DD	SW 8270	
Benzidine	ND	430	ug/Kg	12/10/13	DD	SW 8270	
Benzo(a)pyrene	690	250	ug/Kg	12/10/13	DD	SW 8270	
Benzo(b)fluoranthene	910	250	ug/Kg	12/10/13	DD	SW 8270	
Benzo(ghi)perylene	270	250	ug/Kg	12/10/13	DD	SW 8270	
Benzo(k)fluoranthene	330	250	ug/Kg	12/10/13	DD	SW 8270	
Benzoic acid	ND	1000	ug/Kg	12/10/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	360	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	12/10/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Carbazole	ND	540	ug/Kg	12/10/13	DD	SW 8270	
Chrysene	840	250	ug/Kg	12/10/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Dibenzofuran	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Diethyl phthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Dimethylphthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Di-n-butylphthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Di-n-octylphthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Fluoranthene	1500	250	ug/Kg	12/10/13	DD	SW 8270	
Fluorene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobutadiene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Hexachloroethane	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Isophorone	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Naphthalene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Nitrobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	360	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	360	ug/Kg	12/10/13	DD	SW 8270	
Pentachloronitrobenzene	ND	360	ug/Kg	12/10/13	DD	SW 8270	
Pentachlorophenol	ND	360	ug/Kg	12/10/13	DD	SW 8270	
Phenanthrene	1200	250	ug/Kg	12/10/13	DD	SW 8270	
Phenol	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Pyrene	1400	250	ug/Kg	12/10/13	DD	SW 8270	
Pyridine	ND	360	ug/Kg	12/10/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	70		%	12/10/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	95		%	12/10/13	DD	30 - 130 %	
% 2-Fluorophenol	73		%	12/10/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1 (10-12)

Phoenix I.D.: BF86243

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	94		%	12/10/13	DD	30 - 130 %
% Phenol-d5	60		%	12/10/13	DD	30 - 130 %
% Terphenyl-d14	91		%	12/10/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/06/13	8:25
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86244

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	12/10/13	LK	SW6010
Aluminum	7690	59	mg/Kg	12/10/13	LK	SW6010
Arsenic	8.6	0.8	mg/Kg	12/10/13	LK	SW6010
Barium	286	0.39	mg/Kg	12/10/13	LK	SW6010
Beryllium	0.46	0.31	mg/Kg	12/10/13	LK	SW6010
Calcium	9090	5.9	mg/Kg	12/10/13	LK	SW6010
Cadmium	1.40	0.39	mg/Kg	12/10/13	LK	SW6010
Cobalt	7.03	0.39	mg/Kg	12/10/13	LK	SW6010
Chromium	18.5	0.39	mg/Kg	12/10/13	LK	SW6010
Copper	70.2	0.39	mg/kg	12/10/13	LK	SW6010
Iron	20100	59	mg/Kg	12/10/13	LK	SW6010
Mercury	0.70	0.07	mg/Kg	12/10/13	RS	SW-7471
Potassium	1010	5.9	mg/Kg	12/10/13	LK	SW6010
Magnesium	2220	5.9	mg/Kg	12/10/13	LK	SW6010
Manganese	598	3.9	mg/Kg	12/10/13	LK	SW6010
Sodium	105	5.9	mg/Kg	12/11/13	EK	SW6010
Nickel	17.6	0.39	mg/Kg	12/10/13	LK	SW6010
Lead	602	3.9	mg/Kg	12/10/13	LK	SW6010
Antimony	< 3.9	3.9	mg/Kg	12/10/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	12/10/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	12/10/13	LK	SW6010
Vanadium	33.6	0.39	mg/Kg	12/10/13	LK	SW6010
Zinc	376	3.9	mg/Kg	12/10/13	LK	SW6010
Percent Solid	89		%	12/09/13	I	E160.3
Soil Extraction for PCB	Completed			12/09/13	BB	SW3545
Soil Extraction for Pesticide	Completed			12/09/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			12/09/13	BJ/FV	SW3545
Mercury Digestion	Completed			12/10/13	I/I	SW7471

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (0-2)

Phoenix I.D.: BF86244

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/09/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	12/10/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	12/10/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	12/10/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	12/10/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	12/10/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	12/10/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	12/10/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	12/10/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	12/10/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	86		%	12/10/13	AW	30 - 150 %	
% TCMX	134		%	12/10/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	35	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDE	ND	35	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDT	ND	35	ug/Kg	12/10/13	KCA	SW8081	
a-BHC	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Alachlor	ND	17	ug/Kg	12/10/13	KCA	SW8081	1
Aldrin	ND	5.4	ug/Kg	12/10/13	KCA	SW8081	
b-BHC	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Chlordane	ND	54	ug/Kg	12/10/13	KCA	SW8081	
d-BHC	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Dieldrin	ND	5.4	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan I	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan II	ND	35	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan sulfate	ND	35	ug/Kg	12/10/13	KCA	SW8081	
Endrin	ND	35	ug/Kg	12/10/13	KCA	SW8081	
Endrin aldehyde	ND	35	ug/Kg	12/10/13	KCA	SW8081	
Endrin ketone	ND	35	ug/Kg	12/10/13	KCA	SW8081	
g-BHC	ND	5.4	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor	ND	11	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	12/10/13	KCA	SW8081	
Methoxychlor	ND	170	ug/Kg	12/10/13	KCA	SW8081	
Toxaphene	ND	170	ug/Kg	12/10/13	KCA	SW8081	
QA/QC Surrogates							
% DCBP	80		%	12/10/13	KCA	30 - 150 %	
% TCMX	88		%	12/10/13	KCA	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,1,1-Trichloroethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,1,2-Trichloroethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethene	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloropropene	ND	25	ug/Kg	12/09/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (0-2)

Phoenix I.D.: BF86244

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,2,3-Trichloropropane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,2-Dibromoethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichlorobenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichloroethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichloropropane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,3-Dichlorobenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,3-Dichloropropane	ND	25	ug/Kg	12/09/13	HM	SW8260	
1,4-Dichlorobenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
2,2-Dichloropropane	ND	25	ug/Kg	12/09/13	HM	SW8260	
2-Chlorotoluene	ND	25	ug/Kg	12/09/13	HM	SW8260	
2-Hexanone	ND	130	ug/Kg	12/09/13	HM	SW8260	
2-Isopropyltoluene	ND	25	ug/Kg	12/09/13	HM	SW8260	1
4-Chlorotoluene	ND	25	ug/Kg	12/09/13	HM	SW8260	
4-Methyl-2-pentanone	ND	130	ug/Kg	12/09/13	HM	SW8260	
Acetone	ND	150	ug/Kg	12/09/13	HM	SW8260	
Acrylonitrile	ND	25	ug/Kg	12/09/13	HM	SW8260	
Benzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Bromobenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Bromochloromethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
Bromodichloromethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
Bromoform	ND	25	ug/Kg	12/09/13	HM	SW8260	
Bromomethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
Carbon Disulfide	ND	25	ug/Kg	12/09/13	HM	SW8260	
Carbon tetrachloride	ND	25	ug/Kg	12/09/13	HM	SW8260	
Chlorobenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Chloroethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
Chloroform	ND	25	ug/Kg	12/09/13	HM	SW8260	
Chloromethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	25	ug/Kg	12/09/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Dibromochloromethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
Dibromomethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
Dichlorodifluoromethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
Ethylbenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Hexachlorobutadiene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Isopropylbenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
m&p-Xylene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Methyl Ethyl Ketone	ND	150	ug/Kg	12/09/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	51	ug/Kg	12/09/13	HM	SW8260	
Methylene chloride	ND	25	ug/Kg	12/09/13	HM	SW8260	
Naphthalene	ND	25	ug/Kg	12/09/13	HM	SW8260	
n-Butylbenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
n-Propylbenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
o-Xylene	ND	25	ug/Kg	12/09/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	25	ug/Kg	12/09/13	HM	SW8260	
sec-Butylbenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Styrene	ND	25	ug/Kg	12/09/13	HM	SW8260	
tert-Butylbenzene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Tetrachloroethene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	51	ug/Kg	12/09/13	HM	SW8260	1
Toluene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Total Xylenes	ND	25	ug/Kg	12/09/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	25	ug/Kg	12/09/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	25	ug/Kg	12/09/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	51	ug/Kg	12/09/13	HM	SW8260	
Trichloroethene	ND	25	ug/Kg	12/09/13	HM	SW8260	
Trichlorofluoromethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
Trichlorotrifluoroethane	ND	25	ug/Kg	12/09/13	HM	SW8260	
Vinyl chloride	ND	25	ug/Kg	12/09/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	12/09/13	HM	70 - 130 %	
% Bromofluorobenzene	84		%	12/09/13	HM	70 - 130 %	
% Dibromofluoromethane	106		%	12/09/13	HM	70 - 130 %	
% Toluene-d8	101		%	12/09/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	360	ug/Kg	12/10/13	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrophenol	ND	580	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	12/10/13	DD	SW 8270
2-Nitroaniline	ND	580	ug/Kg	12/10/13	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	12/10/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	12/10/13	DD	SW 8270
3-Nitroaniline	ND	580	ug/Kg	12/10/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	12/10/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	360	ug/Kg	12/10/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	12/10/13	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	12/10/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	12/10/13	DD	SW 8270
4-Nitroaniline	ND	580	ug/Kg	12/10/13	DD	SW 8270

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (0-2)

Phoenix I.D.: BF86244

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1100	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthene	320	250	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthylene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Acetophenone	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	12/10/13	DD	SW 8270	
Anthracene	900	250	ug/Kg	12/10/13	DD	SW 8270	
Benz(a)anthracene	3100	250	ug/Kg	12/10/13	DD	SW 8270	
Benzidine	ND	440	ug/Kg	12/10/13	DD	SW 8270	
Benzo(a)pyrene	2800	250	ug/Kg	12/10/13	DD	SW 8270	
Benzo(b)fluoranthene	4000	250	ug/Kg	12/10/13	DD	SW 8270	
Benzo(ghi)perylene	890	250	ug/Kg	12/10/13	DD	SW 8270	
Benzo(k)fluoranthene	1400	250	ug/Kg	12/10/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	12/10/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	360	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	12/10/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Carbazole	920	550	ug/Kg	12/10/13	DD	SW 8270	
Chrysene	3300	250	ug/Kg	12/10/13	DD	SW 8270	
Dibenz(a,h)anthracene	260	250	ug/Kg	12/10/13	DD	SW 8270	
Dibenzofuran	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Diethyl phthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Dimethylphthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Di-n-butylphthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Di-n-octylphthalate	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Fluoranthene	6600	250	ug/Kg	12/10/13	DD	SW 8270	
Fluorene	310	250	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobutadiene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Hexachloroethane	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	890	250	ug/Kg	12/10/13	DD	SW 8270	
Isophorone	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Naphthalene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Nitrobenzene	ND	250	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	360	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	360	ug/Kg	12/10/13	DD	SW 8270	
Pentachloronitrobenzene	ND	360	ug/Kg	12/10/13	DD	SW 8270	
Pentachlorophenol	ND	360	ug/Kg	12/10/13	DD	SW 8270	
Phenanthrene	5000	250	ug/Kg	12/10/13	DD	SW 8270	
Phenol	ND	250	ug/Kg	12/10/13	DD	SW 8270	
Pyrene	6000	250	ug/Kg	12/10/13	DD	SW 8270	
Pyridine	ND	360	ug/Kg	12/10/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	12/10/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	111		%	12/10/13	DD	30 - 130 %	
% 2-Fluorophenol	84		%	12/10/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (0-2)

Phoenix I.D.: BF86244

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	110		%	12/10/13	DD	30 - 130 %
% Phenol-d5	72		%	12/10/13	DD	30 - 130 %
% Terphenyl-d14	96		%	12/10/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/06/13	8:34
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86245

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (10-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	12/10/13	LK	SW6010
Aluminum	7000	60	mg/Kg	12/10/13	LK	SW6010
Arsenic	8.1	0.8	mg/Kg	12/10/13	LK	SW6010
Barium	113	0.40	mg/Kg	12/10/13	LK	SW6010
Beryllium	0.43	0.32	mg/Kg	12/10/13	LK	SW6010
Calcium	31200	60	mg/Kg	12/10/13	LK	SW6010
Cadmium	9.92	0.40	mg/Kg	12/10/13	LK	SW6010
Cobalt	6.84	0.40	mg/Kg	12/10/13	LK	SW6010
Chromium	15.4	0.40	mg/Kg	12/10/13	LK	SW6010
Copper	36.0	0.40	mg/kg	12/10/13	LK	SW6010
Iron	36200	60	mg/Kg	12/10/13	LK	SW6010
Mercury	0.48	0.08	mg/Kg	12/10/13	RS	SW-7471
Potassium	1520	6.0	mg/Kg	12/10/13	LK	SW6010
Magnesium	2940	6.0	mg/Kg	12/10/13	LK	SW6010
Manganese	525	4.0	mg/Kg	12/10/13	LK	SW6010
Sodium	206	6.0	mg/Kg	12/11/13	EK	SW6010
Nickel	12.7	0.40	mg/Kg	12/10/13	LK	SW6010
Lead	568	4.0	mg/Kg	12/10/13	LK	SW6010
Antimony	< 4.0	4.0	mg/Kg	12/10/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	12/10/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	12/10/13	LK	SW6010
Vanadium	32.5	0.40	mg/Kg	12/10/13	LK	SW6010
Zinc	3000	40	mg/Kg	12/11/13	LK	SW6010
Percent Solid	84		%	12/09/13	I	E160.3
Soil Extraction for PCB	Completed			12/09/13	BB	SW3545
Soil Extraction for Pesticide	Completed			12/09/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			12/09/13	BJ/FV	SW3545
Mercury Digestion	Completed			12/10/13	I/I	SW7471

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (10-12)

Phoenix I.D.: BF86245

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/09/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	390	ug/Kg	12/10/13	AW	SW 8082	
PCB-1221	ND	390	ug/Kg	12/10/13	AW	SW 8082	
PCB-1232	ND	390	ug/Kg	12/10/13	AW	SW 8082	
PCB-1242	ND	390	ug/Kg	12/10/13	AW	SW 8082	
PCB-1248	ND	390	ug/Kg	12/10/13	AW	SW 8082	
PCB-1254	ND	390	ug/Kg	12/10/13	AW	SW 8082	
PCB-1260	ND	390	ug/Kg	12/10/13	AW	SW 8082	
PCB-1262	ND	390	ug/Kg	12/10/13	AW	SW 8082	
PCB-1268	ND	390	ug/Kg	12/10/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	74		%	12/10/13	AW	30 - 150 %	
% TCMX	120		%	12/10/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	37	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDE	ND	37	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDT	ND	37	ug/Kg	12/10/13	KCA	SW8081	
a-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Alachlor	ND	18	ug/Kg	12/10/13	KCA	SW8081	1
Aldrin	ND	5.8	ug/Kg	12/10/13	KCA	SW8081	
b-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Chlordane	ND	58	ug/Kg	12/10/13	KCA	SW8081	
d-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Dieldrin	ND	5.8	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan I	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan II	ND	37	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan sulfate	ND	37	ug/Kg	12/10/13	KCA	SW8081	
Endrin	ND	37	ug/Kg	12/10/13	KCA	SW8081	
Endrin aldehyde	ND	37	ug/Kg	12/10/13	KCA	SW8081	
Endrin ketone	ND	37	ug/Kg	12/10/13	KCA	SW8081	
g-BHC	ND	5.8	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor	ND	12	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Methoxychlor	ND	180	ug/Kg	12/10/13	KCA	SW8081	
Toxaphene	ND	180	ug/Kg	12/10/13	KCA	SW8081	
QA/QC Surrogates							
% DCBP	80		%	12/10/13	KCA	30 - 150 %	
% TCMX	80		%	12/10/13	KCA	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1,1-Trichloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	6.6	ug/Kg	12/09/13	HM	SW8260	
1,1,2-Trichloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloropropene	ND	11	ug/Kg	12/09/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (10-12)

Phoenix I.D.: BF86245

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2,3-Trichloropropane	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2-Dibromoethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,2-Dichloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichloropropane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,3-Dichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
1,3-Dichloropropane	ND	11	ug/Kg	12/09/13	HM	SW8260	
1,4-Dichlorobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
2,2-Dichloropropane	ND	11	ug/Kg	12/09/13	HM	SW8260	
2-Chlorotoluene	ND	280	ug/Kg	12/10/13	HM	SW8260	
2-Hexanone	ND	55	ug/Kg	12/09/13	HM	SW8260	
2-Isopropyltoluene	ND	280	ug/Kg	12/10/13	HM	SW8260	1
4-Chlorotoluene	ND	280	ug/Kg	12/10/13	HM	SW8260	
4-Methyl-2-pentanone	ND	55	ug/Kg	12/09/13	HM	SW8260	
Acetone	ND	66	ug/Kg	12/09/13	HM	SW8260	
Acrylonitrile	ND	11	ug/Kg	12/09/13	HM	SW8260	
Benzene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Bromobenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
Bromochloromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Bromodichloromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Bromoform	ND	11	ug/Kg	12/09/13	HM	SW8260	
Bromomethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Carbon Disulfide	ND	11	ug/Kg	12/09/13	HM	SW8260	
Carbon tetrachloride	ND	11	ug/Kg	12/09/13	HM	SW8260	
Chlorobenzene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Chloroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Chloroform	ND	11	ug/Kg	12/09/13	HM	SW8260	
Chloromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Dibromochloromethane	ND	6.6	ug/Kg	12/09/13	HM	SW8260	
Dibromomethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Dichlorodifluoromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Ethylbenzene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Hexachlorobutadiene	ND	280	ug/Kg	12/10/13	HM	SW8260	
Isopropylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
m&p-Xylene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Methyl Ethyl Ketone	ND	66	ug/Kg	12/09/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	22	ug/Kg	12/09/13	HM	SW8260	
Methylene chloride	ND	11	ug/Kg	12/09/13	HM	SW8260	
Naphthalene	ND	280	ug/Kg	12/10/13	HM	SW8260	
n-Butylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
n-Propylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
o-Xylene	ND	11	ug/Kg	12/09/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (10-12)

Phoenix I.D.: BF86245

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	280	ug/Kg	12/10/13	HM	SW8260	
sec-Butylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
Styrene	ND	11	ug/Kg	12/09/13	HM	SW8260	
tert-Butylbenzene	ND	280	ug/Kg	12/10/13	HM	SW8260	
Tetrachloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	22	ug/Kg	12/09/13	HM	SW8260	1
Toluene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Total Xylenes	ND	11	ug/Kg	12/09/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	11	ug/Kg	12/09/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	560	ug/Kg	12/10/13	HM	SW8260	
Trichloroethene	ND	11	ug/Kg	12/09/13	HM	SW8260	
Trichlorofluoromethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Trichlorotrifluoroethane	ND	11	ug/Kg	12/09/13	HM	SW8260	
Vinyl chloride	ND	11	ug/Kg	12/09/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	12/10/13	HM	70 - 130 %	
% Bromofluorobenzene	97		%	12/10/13	HM	70 - 130 %	
% Dibromofluoromethane	121		%	12/09/13	HM	70 - 130 %	
% Toluene-d8	100		%	12/09/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	12/10/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	280	ug/Kg	12/10/13	DD	SW 8270
1,2-Dichlorobenzene	ND	280	ug/Kg	12/10/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	390	ug/Kg	12/10/13	DD	SW 8270
1,3-Dichlorobenzene	ND	280	ug/Kg	12/10/13	DD	SW 8270
1,4-Dichlorobenzene	ND	280	ug/Kg	12/10/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	280	ug/Kg	12/10/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	280	ug/Kg	12/10/13	DD	SW 8270
2,4-Dichlorophenol	ND	280	ug/Kg	12/10/13	DD	SW 8270
2,4-Dimethylphenol	ND	280	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrophenol	ND	630	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrotoluene	ND	280	ug/Kg	12/10/13	DD	SW 8270
2,6-Dinitrotoluene	ND	280	ug/Kg	12/10/13	DD	SW 8270
2-Chloronaphthalene	ND	280	ug/Kg	12/10/13	DD	SW 8270
2-Chlorophenol	ND	280	ug/Kg	12/10/13	DD	SW 8270
2-Methylnaphthalene	410	280	ug/Kg	12/10/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	280	ug/Kg	12/10/13	DD	SW 8270
2-Nitroaniline	ND	630	ug/Kg	12/10/13	DD	SW 8270
2-Nitrophenol	ND	280	ug/Kg	12/10/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	12/10/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	280	ug/Kg	12/10/13	DD	SW 8270
3-Nitroaniline	ND	630	ug/Kg	12/10/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	12/10/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	390	ug/Kg	12/10/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	280	ug/Kg	12/10/13	DD	SW 8270
4-Chloroaniline	ND	280	ug/Kg	12/10/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	12/10/13	DD	SW 8270
4-Nitroaniline	ND	630	ug/Kg	12/10/13	DD	SW 8270

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (10-12)

Phoenix I.D.: BF86245

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1100	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthene	960	280	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthylene	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Acetophenone	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	12/10/13	DD	SW 8270	
Anthracene	1700	280	ug/Kg	12/10/13	DD	SW 8270	
Benz(a)anthracene	3400	280	ug/Kg	12/10/13	DD	SW 8270	
Benzidine	ND	470	ug/Kg	12/10/13	DD	SW 8270	
Benzo(a)pyrene	2800	280	ug/Kg	12/10/13	DD	SW 8270	
Benzo(b)fluoranthene	3700	280	ug/Kg	12/10/13	DD	SW 8270	
Benzo(ghi)perylene	1000	280	ug/Kg	12/10/13	DD	SW 8270	
Benzo(k)fluoranthene	1200	280	ug/Kg	12/10/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	12/10/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	390	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	12/10/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Carbazole	1800	590	ug/Kg	12/10/13	DD	SW 8270	
Chrysene	3800	280	ug/Kg	12/10/13	DD	SW 8270	
Dibenz(a,h)anthracene	280	280	ug/Kg	12/10/13	DD	SW 8270	
Dibenzofuran	840	280	ug/Kg	12/10/13	DD	SW 8270	
Diethyl phthalate	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Dimethylphthalate	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Di-n-butylphthalate	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Di-n-octylphthalate	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Fluoranthene	8100	280	ug/Kg	12/10/13	DD	SW 8270	
Fluorene	890	280	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobenzene	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobutadiene	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Hexachloroethane	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	910	280	ug/Kg	12/10/13	DD	SW 8270	
Isophorone	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Naphthalene	1100	280	ug/Kg	12/10/13	DD	SW 8270	
Nitrobenzene	ND	280	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	390	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	390	ug/Kg	12/10/13	DD	SW 8270	
Pentachloronitrobenzene	ND	390	ug/Kg	12/10/13	DD	SW 8270	
Pentachlorophenol	ND	390	ug/Kg	12/10/13	DD	SW 8270	
Phenanthrene	9800	280	ug/Kg	12/10/13	DD	SW 8270	
Phenol	ND	280	ug/Kg	12/10/13	DD	SW 8270	
Pyrene	7400	280	ug/Kg	12/10/13	DD	SW 8270	
Pyridine	ND	390	ug/Kg	12/10/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	98		%	12/10/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	108		%	12/10/13	DD	30 - 130 %	
% 2-Fluorophenol	83		%	12/10/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7 (10-12)

Phoenix I.D.: BF86245

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	109		%	12/10/13	DD	30 - 130 %
% Phenol-d5	75		%	12/10/13	DD	30 - 130 %
% Terphenyl-d14	98		%	12/10/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

8260 Analysis:
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.
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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/06/13	10:48
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86246

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	12/10/13	LK	SW6010
Aluminum	11100	60	mg/Kg	12/10/13	LK	SW6010
Arsenic	4.0	0.8	mg/Kg	12/10/13	LK	SW6010
Barium	141	0.40	mg/Kg	12/10/13	LK	SW6010
Beryllium	0.40	0.32	mg/Kg	12/10/13	LK	SW6010
Calcium	30300	60	mg/Kg	12/10/13	LK	SW6010
Cadmium	< 0.40	0.40	mg/Kg	12/10/13	LK	SW6010
Cobalt	7.28	0.40	mg/Kg	12/10/13	LK	SW6010
Chromium	35.2	0.40	mg/Kg	12/10/13	LK	SW6010
Copper	53.0	0.40	mg/kg	12/10/13	LK	SW6010
Iron	20200	60	mg/Kg	12/10/13	LK	SW6010
Mercury	0.25	0.06	mg/Kg	12/10/13	RS	SW-7471
Potassium	3120	6.0	mg/Kg	12/10/13	LK	SW6010
Magnesium	12800	60	mg/Kg	12/10/13	LK	SW6010
Manganese	324	4.0	mg/Kg	12/10/13	LK	SW6010
Sodium	247	6.0	mg/Kg	12/11/13	EK	SW6010
Nickel	28.4	0.40	mg/Kg	12/10/13	LK	SW6010
Lead	207	4.0	mg/Kg	12/10/13	LK	SW6010
Antimony	< 4.0	4.0	mg/Kg	12/10/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	12/10/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	12/10/13	LK	SW6010
Vanadium	35.3	0.40	mg/Kg	12/10/13	LK	SW6010
Zinc	148	0.40	mg/Kg	12/10/13	LK	SW6010
Percent Solid	86		%	12/09/13	I	E160.3
Soil Extraction for PCB	Completed			12/09/13	BB	SW3545
Soil Extraction for Pesticide	Completed			12/09/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			12/09/13	BJ/FV	SW3545
Mercury Digestion	Completed			12/10/13	I/I	SW7471

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (0-2)

Phoenix I.D.: BF86246

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/09/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	380	ug/Kg	12/10/13	AW	SW 8082	
PCB-1221	ND	380	ug/Kg	12/10/13	AW	SW 8082	
PCB-1232	ND	380	ug/Kg	12/10/13	AW	SW 8082	
PCB-1242	ND	380	ug/Kg	12/10/13	AW	SW 8082	
PCB-1248	ND	380	ug/Kg	12/10/13	AW	SW 8082	
PCB-1254	ND	380	ug/Kg	12/10/13	AW	SW 8082	
PCB-1260	ND	380	ug/Kg	12/10/13	AW	SW 8082	
PCB-1262	ND	380	ug/Kg	12/10/13	AW	SW 8082	
PCB-1268	ND	380	ug/Kg	12/10/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	>150		%	12/10/13	AW	30 - 150 %	3
% TCMX	129		%	12/10/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	37	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDE	ND	37	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDT	ND	37	ug/Kg	12/10/13	KCA	SW8081	
a-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Alachlor	ND	18	ug/Kg	12/10/13	KCA	SW8081	1
Aldrin	ND	5.8	ug/Kg	12/10/13	KCA	SW8081	
b-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Chlordane	81	58	ug/Kg	12/10/13	KCA	SW8081	
d-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Dieldrin	ND	5.8	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan I	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan II	ND	37	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan sulfate	ND	37	ug/Kg	12/10/13	KCA	SW8081	
Endrin	ND	37	ug/Kg	12/10/13	KCA	SW8081	
Endrin aldehyde	ND	37	ug/Kg	12/10/13	KCA	SW8081	
Endrin ketone	ND	37	ug/Kg	12/10/13	KCA	SW8081	
g-BHC	ND	5.8	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor	ND	12	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Methoxychlor	ND	180	ug/Kg	12/10/13	KCA	SW8081	
Toxaphene	ND	180	ug/Kg	12/10/13	KCA	SW8081	
QA/QC Surrogates							
% DCBP	82		%	12/10/13	KCA	30 - 150 %	
% TCMX	84		%	12/10/13	KCA	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,1,1-Trichloroethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	8.8	ug/Kg	12/09/13	HM	SW8260	
1,1,2-Trichloroethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethene	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloropropene	ND	15	ug/Kg	12/09/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (0-2)

Phoenix I.D.: BF86246

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
1,2,3-Trichloropropane	ND	300	ug/Kg	12/10/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	300	ug/Kg	12/10/13	HM	SW8260	
1,2-Dibromoethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichlorobenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
1,2-Dichloroethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichloropropane	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
1,3-Dichlorobenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
1,3-Dichloropropane	ND	15	ug/Kg	12/09/13	HM	SW8260	
1,4-Dichlorobenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
2,2-Dichloropropane	ND	15	ug/Kg	12/09/13	HM	SW8260	
2-Chlorotoluene	ND	300	ug/Kg	12/10/13	HM	SW8260	
2-Hexanone	ND	74	ug/Kg	12/09/13	HM	SW8260	
2-Isopropyltoluene	ND	300	ug/Kg	12/10/13	HM	SW8260	1
4-Chlorotoluene	ND	300	ug/Kg	12/10/13	HM	SW8260	
4-Methyl-2-pentanone	ND	74	ug/Kg	12/09/13	HM	SW8260	
Acetone	ND	88	ug/Kg	12/09/13	HM	SW8260	
Acrylonitrile	ND	15	ug/Kg	12/09/13	HM	SW8260	
Benzene	ND	15	ug/Kg	12/09/13	HM	SW8260	
Bromobenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
Bromochloromethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
Bromodichloromethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
Bromoform	ND	15	ug/Kg	12/09/13	HM	SW8260	
Bromomethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
Carbon Disulfide	ND	15	ug/Kg	12/09/13	HM	SW8260	
Carbon tetrachloride	ND	15	ug/Kg	12/09/13	HM	SW8260	
Chlorobenzene	ND	15	ug/Kg	12/09/13	HM	SW8260	
Chloroethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
Chloroform	ND	15	ug/Kg	12/09/13	HM	SW8260	
Chloromethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	15	ug/Kg	12/09/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	15	ug/Kg	12/09/13	HM	SW8260	
Dibromochloromethane	ND	8.8	ug/Kg	12/09/13	HM	SW8260	
Dibromomethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
Dichlorodifluoromethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
Ethylbenzene	ND	15	ug/Kg	12/09/13	HM	SW8260	
Hexachlorobutadiene	ND	300	ug/Kg	12/10/13	HM	SW8260	
Isopropylbenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
m&p-Xylene	ND	15	ug/Kg	12/09/13	HM	SW8260	
Methyl Ethyl Ketone	ND	88	ug/Kg	12/09/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	29	ug/Kg	12/09/13	HM	SW8260	
Methylene chloride	ND	15	ug/Kg	12/09/13	HM	SW8260	
Naphthalene	ND	300	ug/Kg	12/10/13	HM	SW8260	
n-Butylbenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
n-Propylbenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
o-Xylene	ND	15	ug/Kg	12/09/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (0-2)

Phoenix I.D.: BF86246

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	300	ug/Kg	12/10/13	HM	SW8260	
sec-Butylbenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
Styrene	ND	15	ug/Kg	12/09/13	HM	SW8260	
tert-Butylbenzene	ND	300	ug/Kg	12/10/13	HM	SW8260	
Tetrachloroethene	ND	15	ug/Kg	12/09/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	29	ug/Kg	12/09/13	HM	SW8260	1
Toluene	ND	15	ug/Kg	12/09/13	HM	SW8260	
Total Xylenes	ND	15	ug/Kg	12/09/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	15	ug/Kg	12/09/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	15	ug/Kg	12/09/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	600	ug/Kg	12/10/13	HM	SW8260	
Trichloroethene	ND	15	ug/Kg	12/09/13	HM	SW8260	
Trichlorofluoromethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
Trichlorotrifluoroethane	ND	15	ug/Kg	12/09/13	HM	SW8260	
Vinyl chloride	ND	15	ug/Kg	12/09/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	12/10/13	HM	70 - 130 %	
% Bromofluorobenzene	96		%	12/10/13	HM	70 - 130 %	
% Dibromofluoromethane	111		%	12/09/13	HM	70 - 130 %	
% Toluene-d8	101		%	12/09/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	12/10/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	270	ug/Kg	12/10/13	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	12/10/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	380	ug/Kg	12/10/13	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	12/10/13	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	12/10/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	12/10/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	12/10/13	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	12/10/13	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrophenol	ND	610	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	12/10/13	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	12/10/13	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	12/10/13	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	12/10/13	DD	SW 8270
2-Methylnaphthalene	ND	270	ug/Kg	12/10/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	12/10/13	DD	SW 8270
2-Nitroaniline	ND	610	ug/Kg	12/10/13	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	12/10/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	12/10/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	12/10/13	DD	SW 8270
3-Nitroaniline	ND	610	ug/Kg	12/10/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	12/10/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	380	ug/Kg	12/10/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	12/10/13	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	12/10/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	12/10/13	DD	SW 8270
4-Nitroaniline	ND	610	ug/Kg	12/10/13	DD	SW 8270

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (0-2)

Phoenix I.D.: BF86246

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1100	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthene	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthylene	660	270	ug/Kg	12/10/13	DD	SW 8270	
Acetophenone	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	12/10/13	DD	SW 8270	
Anthracene	900	270	ug/Kg	12/10/13	DD	SW 8270	
Benz(a)anthracene	3300	270	ug/Kg	12/10/13	DD	SW 8270	
Benzidine	ND	460	ug/Kg	12/10/13	DD	SW 8270	
Benzo(a)pyrene	2900	270	ug/Kg	12/10/13	DD	SW 8270	
Benzo(b)fluoranthene	4100	270	ug/Kg	12/10/13	DD	SW 8270	
Benzo(ghi)perylene	1300	270	ug/Kg	12/10/13	DD	SW 8270	
Benzo(k)fluoranthene	1700	270	ug/Kg	12/10/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	12/10/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	380	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	12/10/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Carbazole	ND	570	ug/Kg	12/10/13	DD	SW 8270	
Chrysene	3600	270	ug/Kg	12/10/13	DD	SW 8270	
Dibenz(a,h)anthracene	380	270	ug/Kg	12/10/13	DD	SW 8270	
Dibenzofuran	350	270	ug/Kg	12/10/13	DD	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Fluoranthene	7900	270	ug/Kg	12/10/13	DD	SW 8270	
Fluorene	500	270	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Hexachloroethane	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	1300	270	ug/Kg	12/10/13	DD	SW 8270	
Isophorone	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Naphthalene	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Nitrobenzene	ND	270	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	380	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	380	ug/Kg	12/10/13	DD	SW 8270	
Pentachloronitrobenzene	ND	380	ug/Kg	12/10/13	DD	SW 8270	
Pentachlorophenol	ND	380	ug/Kg	12/10/13	DD	SW 8270	
Phenanthrene	5900	270	ug/Kg	12/10/13	DD	SW 8270	
Phenol	ND	270	ug/Kg	12/10/13	DD	SW 8270	
Pyrene	6400	270	ug/Kg	12/10/13	DD	SW 8270	
Pyridine	ND	380	ug/Kg	12/10/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	58		%	12/10/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	97		%	12/10/13	DD	30 - 130 %	
% 2-Fluorophenol	73		%	12/10/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (0-2)

Phoenix I.D.: BF86246

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	99		%	12/10/13	DD	30 - 130 %
% Phenol-d5	77		%	12/10/13	DD	30 - 130 %
% Terphenyl-d14	106		%	12/10/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

8260 Analysis:
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.
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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/06/13	11:00
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86247

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (10-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	12/10/13	LK	SW6010
Aluminum	8420	52	mg/Kg	12/10/13	LK	SW6010
Arsenic	4.6	0.7	mg/Kg	12/10/13	LK	SW6010
Barium	80.2	0.35	mg/Kg	12/10/13	LK	SW6010
Beryllium	0.42	0.28	mg/Kg	12/10/13	LK	SW6010
Calcium	30000	52	mg/Kg	12/10/13	LK	SW6010
Cadmium	< 0.35	0.35	mg/Kg	12/10/13	LK	SW6010
Cobalt	4.12	0.35	mg/Kg	12/10/13	LK	SW6010
Chromium	18.0	0.35	mg/Kg	12/10/13	LK	SW6010
Copper	16.0	0.35	mg/kg	12/10/13	LK	SW6010
Iron	13200	52	mg/Kg	12/10/13	LK	SW6010
Mercury	0.10	0.07	mg/Kg	12/10/13	RS	SW-7471
Potassium	1520	5.2	mg/Kg	12/10/13	LK	SW6010
Magnesium	8390	52	mg/Kg	12/10/13	LK	SW6010
Manganese	386	3.5	mg/Kg	12/10/13	LK	SW6010
Sodium	841	5.2	mg/Kg	12/11/13	EK	SW6010
Nickel	11.4	0.35	mg/Kg	12/10/13	LK	SW6010
Lead	77.3	0.35	mg/Kg	12/10/13	LK	SW6010
Antimony	< 3.5	3.5	mg/Kg	12/10/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	12/10/13	LK	SW6010
Thallium	< 0.6	0.6	mg/Kg	12/10/13	LK	SW6010
Vanadium	23.9	0.35	mg/Kg	12/10/13	LK	SW6010
Zinc	56.2	0.35	mg/Kg	12/10/13	LK	SW6010
Percent Solid	87		%	12/09/13	I	E160.3
Soil Extraction for PCB	Completed			12/09/13	BB	SW3545
Soil Extraction for Pesticide	Completed			12/09/13	BB/V	SW3545
Soil Extraction for SVOA	Completed			12/09/13	BJ/FV	SW3545
Mercury Digestion	Completed			12/10/13	I/I	SW7471

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (10-12)

Phoenix I.D.: BF86247

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/09/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1221	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1232	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1242	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1248	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1254	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1260	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1262	ND	370	ug/Kg	12/10/13	AW	SW 8082	
PCB-1268	ND	370	ug/Kg	12/10/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	84		%	12/10/13	AW	30 - 150 %	
% TCMX	129		%	12/10/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	36	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDE	ND	36	ug/Kg	12/10/13	KCA	SW8081	
4,4' -DDT	ND	36	ug/Kg	12/10/13	KCA	SW8081	
a-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Alachlor	ND	18	ug/Kg	12/10/13	KCA	SW8081	1
Aldrin	ND	5.6	ug/Kg	12/10/13	KCA	SW8081	
b-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Chlordane	ND	56	ug/Kg	12/10/13	KCA	SW8081	
d-BHC	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Dieldrin	ND	5.6	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan I	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan II	ND	36	ug/Kg	12/10/13	KCA	SW8081	
Endosulfan sulfate	ND	36	ug/Kg	12/10/13	KCA	SW8081	
Endrin	ND	36	ug/Kg	12/10/13	KCA	SW8081	
Endrin aldehyde	ND	36	ug/Kg	12/10/13	KCA	SW8081	
Endrin ketone	ND	36	ug/Kg	12/10/13	KCA	SW8081	
g-BHC	ND	5.6	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor	ND	11	ug/Kg	12/10/13	KCA	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	12/10/13	KCA	SW8081	
Methoxychlor	ND	180	ug/Kg	12/10/13	KCA	SW8081	
Toxaphene	ND	180	ug/Kg	12/10/13	KCA	SW8081	
QA/QC Surrogates							
% DCBP	82		%	12/10/13	KCA	30 - 150 %	
% TCMX	86		%	12/10/13	KCA	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,1,1-Trichloroethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	8.0	ug/Kg	12/09/13	HM	SW8260	
1,1,2-Trichloroethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloroethene	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,1-Dichloropropene	ND	13	ug/Kg	12/09/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (10-12)

Phoenix I.D.: BF86247

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,2,3-Trichloropropane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,2-Dibromoethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichlorobenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichloroethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,2-Dichloropropane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,3-Dichlorobenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,3-Dichloropropane	ND	13	ug/Kg	12/09/13	HM	SW8260	
1,4-Dichlorobenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
2,2-Dichloropropane	ND	13	ug/Kg	12/09/13	HM	SW8260	
2-Chlorotoluene	ND	13	ug/Kg	12/09/13	HM	SW8260	
2-Hexanone	ND	67	ug/Kg	12/09/13	HM	SW8260	
2-Isopropyltoluene	ND	13	ug/Kg	12/09/13	HM	SW8260	1
4-Chlorotoluene	ND	13	ug/Kg	12/09/13	HM	SW8260	
4-Methyl-2-pentanone	ND	67	ug/Kg	12/09/13	HM	SW8260	
Acetone	ND	80	ug/Kg	12/09/13	HM	SW8260	
Acrylonitrile	ND	13	ug/Kg	12/09/13	HM	SW8260	
Benzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Bromobenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Bromochloromethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
Bromodichloromethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
Bromoform	ND	13	ug/Kg	12/09/13	HM	SW8260	
Bromomethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
Carbon Disulfide	ND	13	ug/Kg	12/09/13	HM	SW8260	
Carbon tetrachloride	ND	13	ug/Kg	12/09/13	HM	SW8260	
Chlorobenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Chloroethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
Chloroform	ND	13	ug/Kg	12/09/13	HM	SW8260	
Chloromethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	13	ug/Kg	12/09/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Dibromochloromethane	ND	8.0	ug/Kg	12/09/13	HM	SW8260	
Dibromomethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
Dichlorodifluoromethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
Ethylbenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Hexachlorobutadiene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Isopropylbenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
m&p-Xylene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Methyl Ethyl Ketone	ND	80	ug/Kg	12/09/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	27	ug/Kg	12/09/13	HM	SW8260	
Methylene chloride	ND	13	ug/Kg	12/09/13	HM	SW8260	
Naphthalene	ND	13	ug/Kg	12/09/13	HM	SW8260	
n-Butylbenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
n-Propylbenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
o-Xylene	ND	13	ug/Kg	12/09/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
p-Isopropyltoluene	ND	13	ug/Kg	12/09/13	HM	SW8260	
sec-Butylbenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Styrene	ND	13	ug/Kg	12/09/13	HM	SW8260	
tert-Butylbenzene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Tetrachloroethene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	27	ug/Kg	12/09/13	HM	SW8260	1
Toluene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Total Xylenes	ND	13	ug/Kg	12/09/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	13	ug/Kg	12/09/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	13	ug/Kg	12/09/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	27	ug/Kg	12/09/13	HM	SW8260	
Trichloroethene	ND	13	ug/Kg	12/09/13	HM	SW8260	
Trichlorofluoromethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
Trichlorotrifluoroethane	ND	13	ug/Kg	12/09/13	HM	SW8260	
Vinyl chloride	ND	13	ug/Kg	12/09/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	12/09/13	HM	70 - 130 %	
% Bromofluorobenzene	93		%	12/09/13	HM	70 - 130 %	
% Dibromofluoromethane	110		%	12/09/13	HM	70 - 130 %	
% Toluene-d8	102		%	12/09/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	12/10/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	12/10/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	12/10/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	12/10/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	12/10/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	12/10/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	12/10/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	12/10/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	12/10/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	12/10/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	12/10/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	12/10/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	12/10/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	12/10/13	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	12/10/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	12/10/13	DD	SW 8270
2-Nitroaniline	ND	600	ug/Kg	12/10/13	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	12/10/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	12/10/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	12/10/13	DD	SW 8270
3-Nitroaniline	ND	600	ug/Kg	12/10/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	12/10/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	12/10/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	12/10/13	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	12/10/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	12/10/13	DD	SW 8270
4-Nitroaniline	ND	600	ug/Kg	12/10/13	DD	SW 8270

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (10-12)

Phoenix I.D.: BF86247

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitrophenol	ND	1100	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	12/10/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Benz(a)anthracene	540	260	ug/Kg	12/10/13	DD	SW 8270	
Benzidine	ND	450	ug/Kg	12/10/13	DD	SW 8270	
Benzo(a)pyrene	510	260	ug/Kg	12/10/13	DD	SW 8270	
Benzo(b)fluoranthene	690	260	ug/Kg	12/10/13	DD	SW 8270	
Benzo(ghi)perylene	280	260	ug/Kg	12/10/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	12/10/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	12/10/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	12/10/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Carbazole	ND	560	ug/Kg	12/10/13	DD	SW 8270	
Chrysene	530	260	ug/Kg	12/10/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Fluoranthene	1300	260	ug/Kg	12/10/13	DD	SW 8270	
Fluorene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	270	260	ug/Kg	12/10/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	12/10/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	12/10/13	DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	12/10/13	DD	SW 8270	
Pentachlorophenol	ND	370	ug/Kg	12/10/13	DD	SW 8270	
Phenanthrene	940	260	ug/Kg	12/10/13	DD	SW 8270	
Phenol	ND	260	ug/Kg	12/10/13	DD	SW 8270	
Pyrene	1100	260	ug/Kg	12/10/13	DD	SW 8270	
Pyridine	ND	370	ug/Kg	12/10/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	12/10/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	94		%	12/10/13	DD	30 - 130 %	
% 2-Fluorophenol	75		%	12/10/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5 (10-12)

Phoenix I.D.: BF86247

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Nitrobenzene-d5	98		%	12/10/13	DD	30 - 130 %
% Phenol-d5	81		%	12/10/13	DD	30 - 130 %
% Terphenyl-d14	102		%	12/10/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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.
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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/06/13	14:15
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86248

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1/MW-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Aluminum	0.060	0.010	mg/L	12/10/13	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	12/10/13	LK	SW6010
Barium	0.109	0.002	mg/L	12/10/13	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Calcium	107	0.010	mg/L	12/10/13	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Cobalt	0.007	0.002	mg/L	12/10/13	LK	SW6010
Chromium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Copper	< 0.005	0.005	mg/L	12/10/13	LK	SW6010
Iron	0.224	0.010	mg/L	12/10/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	12/10/13	RS	SW7470
Potassium	6.9	0.1	mg/L	12/10/13	LK	SW6010
Magnesium	18.2	0.01	mg/L	12/10/13	LK	SW6010
Manganese	3.41	0.010	mg/L	12/10/13	EK	SW6010
Sodium	83.0	1.0	mg/L	12/11/13	EK	SW6010
Nickel	0.028	0.001	mg/L	12/10/13	LK	SW6010
Lead	< 0.002	0.002	mg/L	12/10/13	LK	SW6010
Antimony	< 0.005	0.005	mg/L	12/10/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	12/10/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	12/10/13	RS	SM3113B/SW70
Vanadium	< 0.002	0.002	mg/L	12/10/13	LK	SW6010
Zinc	< 0.002	0.002	mg/L	12/10/13	LK	SW6010
Mercury Digestion	Completed			12/10/13	I/I	SW7470
PCB Extraction	Completed			12/09/13	T	SW3510C
Extraction for Pest (2 Liter)	Completed			12/09/13	T	SW3510
Semi-Volatile Extraction	Completed			12/09/13	E/D/D	SW3520
Total Metals Digestion	Completed			12/09/13	AG	SW846 - 3050

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1/MW-1

Phoenix I.D.: BF86248

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Polychlorinated Biphenyls							
PCB-1016	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1221	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1232	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1242	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1248	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1254	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1260	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1262	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1268	ND	0.13	ug/L	12/11/13	AW	8082	
QA/QC Surrogates							
% DCBP	77		%	12/11/13	AW	30 - 150 %	
% TCMX	59		%	12/11/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	0.67	ug/L	12/11/13	MH	SW8081	
4,4' -DDE	ND	0.67	ug/L	12/11/13	MH	SW8081	
4,4' -DDT	ND	0.67	ug/L	12/11/13	MH	SW8081	
a-BHC	ND	0.33	ug/L	12/11/13	MH	SW8081	
Alachlor	ND	1.0	ug/L	12/11/13	MH	SW8081	1
Aldrin	ND	0.020	ug/L	12/11/13	MH	SW8081	
b-BHC	ND	0.067	ug/L	12/11/13	MH	SW8081	
Chlordane	ND	4.0	ug/L	12/11/13	MH	SW8081	
d-BHC	ND	0.33	ug/L	12/11/13	MH	SW8081	
Dieldrin	ND	0.020	ug/L	12/11/13	MH	SW8081	
Endosulfan I	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endosulfan II	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endosulfan Sulfate	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endrin	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endrin Aldehyde	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endrin ketone	ND	0.67	ug/L	12/11/13	MH	SW8081	
g-BHC (Lindane)	ND	0.33	ug/L	12/11/13	MH	SW8081	
Heptachlor	ND	0.33	ug/L	12/11/13	MH	SW8081	
Heptachlor epoxide	ND	0.33	ug/L	12/11/13	MH	SW8081	
Methoxychlor	ND	1.3	ug/L	12/11/13	MH	SW8081	
Toxaphene	ND	13	ug/L	12/11/13	MH	SW8081	
QA/QC Surrogates							
%DCBP (Surrogate Rec)	Diluted Out		%	12/11/13	MH	30 - 150 %	
%TCMX (Surrogate Rec)	Diluted Out		%	12/11/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1/MW-1

Phoenix I.D.: BF86248

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	12/10/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	12/10/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	12/10/13	HM	SW8260	
Acetone	ND	25	ug/L	12/10/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	12/10/13	HM	SW8260	
Benzene	ND	0.70	ug/L	12/10/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Bromoform	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	12/10/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroform	ND	5.0	ug/L	12/10/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	12/10/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1/MW-1

Phoenix I.D.: BF86248

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Styrene	ND	1.0	ug/L	12/10/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Tetrachloroethene	51	2.0	ug/L	12/10/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	12/10/13	HM	SW8260	1
Toluene	1.1	1.0	ug/L	12/10/13	HM	SW8260	
Total Xylenes	ND	2.0	ug/L	12/10/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	12/10/13	HM	SW8260	
Trichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	12/10/13	HM	70 - 130 %	
% Bromofluorobenzene	98		%	12/10/13	HM	70 - 130 %	
% Dibromofluoromethane	101		%	12/10/13	HM	70 - 130 %	
% Toluene-d8	102		%	12/10/13	HM	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	12/11/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	12/11/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	12/11/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	12/11/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	12/11/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	12/11/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	12/11/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	12/11/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	12/11/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	12/11/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	12/11/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	12/11/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	12/11/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	12/11/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	12/11/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	12/11/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	12/11/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	12/11/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	12/11/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	12/11/13	DD	SW8270

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1/MW-1

Phoenix I.D.: BF86248

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aniline	ND	10	ug/L	12/11/13	DD	SW8270	
Anthracene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Benzidine	ND	50	ug/L	12/11/13	DD	SW8270	
Benzoic acid	ND	50	ug/L	12/11/13	DD	SW8270	
Benzyl butyl phthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	12/11/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	5.0	ug/L	12/11/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	12/11/13	DD	SW8270	
Carbazole	ND	5.0	ug/L	12/11/13	DD	SW8270	
Dibenzofuran	ND	5.0	ug/L	12/11/13	DD	SW8270	
Diethyl phthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Dimethylphthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Di-n-butylphthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Di-n-octylphthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Fluoranthene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Fluorene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Hexachlorobutadiene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Isophorone	ND	5.0	ug/L	12/11/13	DD	SW8270	
Naphthalene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Nitrobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270	
N-Nitrosodimethylamine	ND	5.0	ug/L	12/11/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	12/11/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	5.0	ug/L	12/11/13	DD	SW8270	
Phenol	ND	5.0	ug/L	12/11/13	DD	SW8270	
Pyrene	ND	5.0	ug/L	12/11/13	DD	SW8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	81		%	12/11/13	DD	15 - 110 %	
% 2-Fluorobiphenyl	86		%	12/11/13	DD	30 - 130 %	
% 2-Fluorophenol	<5		%	12/11/13	DD	15 - 110 %	3
% Nitrobenzene-d5	117		%	12/11/13	DD	30 - 130 %	
% Phenol-d5	<5		%	12/11/13	DD	15 - 110 %	3
% Terphenyl-d14	121		%	12/11/13	DD	30 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	12/10/13	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.03	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	12/10/13	DD	SW8270 (SIM)
Chrysene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	12/10/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.040	ug/L	12/10/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	12/10/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	12/10/13	DD	SW8270 (SIM)

Project ID: 874 WILLONGHBY AVE
Client ID: SB-1/MW-1

Phoenix I.D.: BF86248

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Pentachlorophenol	ND	0.80	ug/L	12/10/13	DD	SW8270 (SIM)	
Phenanthrene	0.11	0.050	ug/L	12/10/13	DD	SW8270 (SIM)	
Pyridine	ND	0.50	ug/L	12/10/13	DD	SW8270 (SIM)	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	81		%	12/10/13	DD	15 - 110 %	
% 2-Fluorobiphenyl	86		%	12/10/13	DD	30 - 130 %	
% 2-Fluorophenol	<5		%	12/10/13	DD	15 - 110 %	3
% Nitrobenzene-d5	117		%	12/10/13	DD	30 - 130 %	
% Phenol-d5	<5		%	12/10/13	DD	15 - 110 %	3
% Terphenyl-d14	121		%	12/10/13	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.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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.

* Poor surrogate recovery was observed for semivolatiles and there was insufficient sample for re-extraction. The other surrogates associated with this sample were within QA/QC criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/06/13	9:55
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86249

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Aluminum	0.100	0.010	mg/L	12/10/13	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	12/10/13	LK	SW6010
Barium	0.076	0.002	mg/L	12/10/13	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Calcium	62.1	0.010	mg/L	12/10/13	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Cobalt	0.015	0.002	mg/L	12/10/13	LK	SW6010
Chromium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Copper	< 0.005	0.005	mg/L	12/10/13	LK	SW6010
Iron	0.247	0.010	mg/L	12/10/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	12/10/13	RS	SW7470
Potassium	4.2	0.1	mg/L	12/10/13	LK	SW6010
Magnesium	16.7	0.01	mg/L	12/10/13	LK	SW6010
Manganese	2.86	0.010	mg/L	12/10/13	EK	SW6010
Sodium	79.6	1.0	mg/L	12/10/13	EK	SW6010
Nickel	0.028	0.001	mg/L	12/10/13	LK	SW6010
Lead	< 0.002	0.002	mg/L	12/10/13	LK	SW6010
Antimony	< 0.005	0.005	mg/L	12/10/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	12/10/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	12/10/13	RS	SM3113B/SW70
Vanadium	< 0.002	0.002	mg/L	12/10/13	LK	SW6010
Zinc	0.006	0.002	mg/L	12/10/13	LK	SW6010
Mercury Digestion	Completed			12/10/13	I/I	SW7470
PCB Extraction	Completed			12/09/13	T	SW3510C
Extraction for Pest (2 Liter)	Completed			12/09/13	T	SW3510
Semi-Volatile Extraction	Completed			12/09/13	E/D/D	SW3520
Total Metals Digestion	Completed			12/09/13	AG	SW846 - 3050

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3

Phoenix I.D.: BF86249

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Polychlorinated Biphenyls							
PCB-1016	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1221	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1232	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1242	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1248	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1254	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1260	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1262	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1268	ND	0.13	ug/L	12/11/13	AW	8082	
QA/QC Surrogates							
% DCBP	78		%	12/11/13	AW	30 - 150 %	
% TCMX	58		%	12/11/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	0.67	ug/L	12/11/13	MH	SW8081	
4,4' -DDE	ND	0.67	ug/L	12/11/13	MH	SW8081	
4,4' -DDT	ND	0.67	ug/L	12/11/13	MH	SW8081	
a-BHC	ND	0.33	ug/L	12/11/13	MH	SW8081	
Alachlor	ND	1.0	ug/L	12/11/13	MH	SW8081	1
Aldrin	ND	0.020	ug/L	12/11/13	MH	SW8081	
b-BHC	ND	0.067	ug/L	12/11/13	MH	SW8081	
Chlordane	ND	4.0	ug/L	12/11/13	MH	SW8081	
d-BHC	ND	0.33	ug/L	12/11/13	MH	SW8081	
Dieldrin	ND	0.020	ug/L	12/11/13	MH	SW8081	
Endosulfan I	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endosulfan II	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endosulfan Sulfate	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endrin	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endrin Aldehyde	ND	0.67	ug/L	12/11/13	MH	SW8081	
Endrin ketone	ND	0.67	ug/L	12/11/13	MH	SW8081	
g-BHC (Lindane)	ND	0.33	ug/L	12/11/13	MH	SW8081	
Heptachlor	ND	0.33	ug/L	12/11/13	MH	SW8081	
Heptachlor epoxide	ND	0.33	ug/L	12/11/13	MH	SW8081	
Methoxychlor	ND	1.3	ug/L	12/11/13	MH	SW8081	
Toxaphene	ND	13	ug/L	12/11/13	MH	SW8081	
QA/QC Surrogates							
%DCBP (Surrogate Rec)	Diluted Out		%	12/11/13	MH	30 - 150 %	
%TCMX (Surrogate Rec)	Diluted Out		%	12/11/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3

Phoenix I.D.: BF86249

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	12/10/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	12/10/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	12/10/13	HM	SW8260	
Acetone	ND	25	ug/L	12/10/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	12/10/13	HM	SW8260	
Benzene	ND	0.70	ug/L	12/10/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Bromoform	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	12/10/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroform	ND	5.0	ug/L	12/10/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,2-Dichloroethene	1.8	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	12/10/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3

Phoenix I.D.: BF86249

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Styrene	ND	1.0	ug/L	12/10/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Tetrachloroethene	150	5.0	ug/L	12/10/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	12/10/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Total Xylenes	ND	2.0	ug/L	12/10/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	12/10/13	HM	SW8260	
Trichloroethene	2.8	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	12/10/13	HM	70 - 130 %	
% Bromofluorobenzene	98		%	12/10/13	HM	70 - 130 %	
% Dibromofluoromethane	101		%	12/10/13	HM	70 - 130 %	
% Toluene-d8	102		%	12/10/13	HM	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	12/11/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	12/11/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	12/11/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	12/11/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	12/11/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	12/11/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	12/11/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	12/11/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	12/11/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	12/11/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	12/11/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	12/11/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	12/11/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	12/11/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	12/11/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	12/11/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	12/11/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	12/11/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	12/11/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	12/11/13	DD	SW8270

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3

Phoenix I.D.: BF86249

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aniline	ND	10	ug/L	12/11/13	DD	SW8270	
Anthracene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Benzidine	ND	50	ug/L	12/11/13	DD	SW8270	
Benzoic acid	ND	50	ug/L	12/11/13	DD	SW8270	
Benzyl butyl phthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	12/11/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	5.0	ug/L	12/11/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	12/11/13	DD	SW8270	
Carbazole	ND	5.0	ug/L	12/11/13	DD	SW8270	
Dibenzofuran	ND	5.0	ug/L	12/11/13	DD	SW8270	
Diethyl phthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Dimethylphthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Di-n-butylphthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Di-n-octylphthalate	ND	5.0	ug/L	12/11/13	DD	SW8270	
Fluoranthene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Fluorene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Hexachlorobutadiene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Isophorone	ND	5.0	ug/L	12/11/13	DD	SW8270	
Naphthalene	ND	5.0	ug/L	12/11/13	DD	SW8270	
Nitrobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270	
N-Nitrosodimethylamine	ND	5.0	ug/L	12/11/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	12/11/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	5.0	ug/L	12/11/13	DD	SW8270	
Phenol	ND	5.0	ug/L	12/11/13	DD	SW8270	
Pyrene	ND	5.0	ug/L	12/11/13	DD	SW8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	80		%	12/11/13	DD	15 - 110 %	
% 2-Fluorobiphenyl	83		%	12/11/13	DD	30 - 130 %	
% 2-Fluorophenol	18		%	12/11/13	DD	15 - 110 %	
% Nitrobenzene-d5	103		%	12/11/13	DD	30 - 130 %	
% Phenol-d5	14		%	12/11/13	DD	15 - 110 %	3
% Terphenyl-d14	116		%	12/11/13	DD	30 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	12/10/13	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.03	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	12/10/13	DD	SW8270 (SIM)
Chrysene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	12/10/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.040	ug/L	12/10/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	12/10/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	12/10/13	DD	SW8270 (SIM)

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3

Phoenix I.D.: BF86249

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Pentachlorophenol	ND	0.80	ug/L	12/10/13	DD	SW8270 (SIM)	
Phenanthrene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)	
Pyridine	ND	0.50	ug/L	12/10/13	DD	SW8270 (SIM)	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	80		%	12/10/13	DD	15 - 110 %	
% 2-Fluorobiphenyl	83		%	12/10/13	DD	30 - 130 %	
% 2-Fluorophenol	18		%	12/10/13	DD	15 - 110 %	
% Nitrobenzene-d5	103		%	12/10/13	DD	30 - 130 %	
% Phenol-d5	14		%	12/10/13	DD	15 - 110 %	3
% Terphenyl-d14	116		%	12/10/13	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.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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.

* Poor surrogate recovery was observed for semivolatiles and there was insufficient sample for re-extraction. The other surrogates associated with this sample were within QA/QC criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

NY # 11301

Analysis Report

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/06/13	12:00
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86250

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5/MW-4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Aluminum	0.178	0.010	mg/L	12/10/13	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	12/10/13	LK	SW6010
Barium	0.044	0.002	mg/L	12/10/13	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Calcium	27.6	0.010	mg/L	12/10/13	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Cobalt	0.007	0.002	mg/L	12/10/13	LK	SW6010
Chromium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Copper	< 0.005	0.005	mg/L	12/10/13	LK	SW6010
Iron	0.167	0.010	mg/L	12/10/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	12/10/13	RS	SW7470
Potassium	4.4	0.1	mg/L	12/10/13	LK	SW6010
Magnesium	7.46	0.01	mg/L	12/10/13	LK	SW6010
Manganese	2.40	0.010	mg/L	12/10/13	EK	SW6010
Sodium	125	1.0	mg/L	12/10/13	EK	SW6010
Nickel	0.017	0.001	mg/L	12/10/13	LK	SW6010
Lead	< 0.002	0.002	mg/L	12/10/13	LK	SW6010
Antimony	< 0.005	0.005	mg/L	12/10/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	12/10/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	12/10/13	RS	SM3113B/SW70
Vanadium	< 0.002	0.002	mg/L	12/10/13	LK	SW6010
Zinc	0.004	0.002	mg/L	12/10/13	LK	SW6010
Mercury Digestion	Completed			12/10/13	I/I	SW7470
PCB Extraction	Completed			12/09/13	T	SW3510C
Extraction for Pest (2 Liter)	Completed			12/09/13	T	SW3510
Semi-Volatile Extraction	Completed			12/09/13	E/D/D	SW3520
Total Metals Digestion	Completed			12/09/13	AG	SW846 - 3050

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5/MW-4

Phoenix I.D.: BF86250

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Polychlorinated Biphenyls							
PCB-1016	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1221	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1232	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1242	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1248	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1254	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1260	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1262	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1268	ND	0.13	ug/L	12/11/13	AW	8082	
QA/QC Surrogates							
% DCBP	58		%	12/11/13	AW	30 - 150 %	
% TCMX	48		%	12/11/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	0.66	ug/L	12/11/13	MH	SW8081	
4,4' -DDE	ND	0.66	ug/L	12/11/13	MH	SW8081	
4,4' -DDT	ND	0.66	ug/L	12/11/13	MH	SW8081	
a-BHC	ND	0.33	ug/L	12/11/13	MH	SW8081	
Alachlor	ND	0.99	ug/L	12/11/13	MH	SW8081	1
Aldrin	ND	0.020	ug/L	12/11/13	MH	SW8081	
b-BHC	ND	0.066	ug/L	12/11/13	MH	SW8081	
Chlordane	ND	3.9	ug/L	12/11/13	MH	SW8081	
d-BHC	ND	0.33	ug/L	12/11/13	MH	SW8081	
Dieldrin	ND	0.020	ug/L	12/11/13	MH	SW8081	
Endosulfan I	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endosulfan II	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endosulfan Sulfate	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endrin	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endrin Aldehyde	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endrin ketone	ND	0.66	ug/L	12/11/13	MH	SW8081	
g-BHC (Lindane)	ND	0.33	ug/L	12/11/13	MH	SW8081	
Heptachlor	ND	0.33	ug/L	12/11/13	MH	SW8081	
Heptachlor epoxide	ND	0.33	ug/L	12/11/13	MH	SW8081	
Methoxychlor	ND	1.3	ug/L	12/11/13	MH	SW8081	
Toxaphene	ND	13	ug/L	12/11/13	MH	SW8081	
QA/QC Surrogates							
%DCBP (Surrogate Rec)	Diluted Out		%	12/11/13	MH	30 - 150 %	
%TCMX (Surrogate Rec)	Diluted Out		%	12/11/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5/MW-4

Phoenix I.D.: BF86250

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	12/10/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	12/10/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	12/10/13	HM	SW8260	
Acetone	ND	25	ug/L	12/10/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	12/10/13	HM	SW8260	
Benzene	ND	0.70	ug/L	12/10/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Bromoform	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	12/10/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroform	ND	5.0	ug/L	12/10/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	12/10/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5/MW-4

Phoenix I.D.: BF86250

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Styrene	ND	1.0	ug/L	12/10/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Tetrachloroethene	160	10	ug/L	12/10/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	12/10/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Total Xylenes	ND	2.0	ug/L	12/10/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	12/10/13	HM	SW8260	
Trichloroethene	1.3	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	12/10/13	HM	70 - 130 %	
% Bromofluorobenzene	99		%	12/10/13	HM	70 - 130 %	
% Dibromofluoromethane	102		%	12/10/13	HM	70 - 130 %	
% Toluene-d8	102		%	12/10/13	HM	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0	ug/L	12/12/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	12/12/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	12/12/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	12/12/13	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	12/12/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	12/12/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	12/12/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	12/12/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	12/12/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	12/12/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	12/12/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	12/12/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	12/12/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	12/12/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	12/12/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	12/12/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	12/12/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	12/12/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	12/12/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	12/12/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	12/12/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	12/12/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	12/12/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	12/12/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	12/12/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	12/12/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	12/12/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	12/12/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	12/12/13	DD	SW8270

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5/MW-4

Phoenix I.D.: BF86250

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aniline	ND	10	ug/L	12/12/13	DD	SW8270	
Anthracene	ND	5.0	ug/L	12/12/13	DD	SW8270	
Benzidine	ND	50	ug/L	12/12/13	DD	SW8270	
Benzoic acid	ND	50	ug/L	12/12/13	DD	SW8270	
Benzyl butyl phthalate	ND	5.0	ug/L	12/12/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	12/12/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	5.0	ug/L	12/12/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	12/12/13	DD	SW8270	
Carbazole	ND	5.0	ug/L	12/12/13	DD	SW8270	
Dibenzofuran	ND	5.0	ug/L	12/12/13	DD	SW8270	
Diethyl phthalate	ND	5.0	ug/L	12/12/13	DD	SW8270	
Dimethylphthalate	ND	5.0	ug/L	12/12/13	DD	SW8270	
Di-n-butylphthalate	ND	5.0	ug/L	12/12/13	DD	SW8270	
Di-n-octylphthalate	ND	5.0	ug/L	12/12/13	DD	SW8270	
Fluoranthene	ND	5.0	ug/L	12/12/13	DD	SW8270	
Fluorene	ND	5.0	ug/L	12/12/13	DD	SW8270	
Hexachlorobutadiene	ND	5.0	ug/L	12/12/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	5.0	ug/L	12/12/13	DD	SW8270	
Isophorone	ND	5.0	ug/L	12/12/13	DD	SW8270	
Naphthalene	ND	5.0	ug/L	12/12/13	DD	SW8270	
Nitrobenzene	ND	5.0	ug/L	12/12/13	DD	SW8270	
N-Nitrosodimethylamine	ND	5.0	ug/L	12/12/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	12/12/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	5.0	ug/L	12/12/13	DD	SW8270	
Phenol	ND	5.0	ug/L	12/12/13	DD	SW8270	
Pyrene	ND	5.0	ug/L	12/12/13	DD	SW8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	59		%	12/12/13	DD	15 - 110 %	
% 2-Fluorobiphenyl	86		%	12/12/13	DD	30 - 130 %	
% 2-Fluorophenol	<5		%	12/12/13	DD	15 - 110 %	3
% Nitrobenzene-d5	108		%	12/12/13	DD	30 - 130 %	
% Phenol-d5	<5		%	12/12/13	DD	15 - 110 %	3
% Terphenyl-d14	112		%	12/12/13	DD	30 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	12/10/13	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.02	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	2.6	1.6	ug/L	12/10/13	DD	SW8270 (SIM)
Chrysene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	12/10/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.040	ug/L	12/10/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	12/10/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	12/10/13	DD	SW8270 (SIM)

Project ID: 874 WILLONGHBY AVE
Client ID: SB-5/MW-4

Phoenix I.D.: BF86250

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Pentachlorophenol	ND	0.80	ug/L	12/10/13	DD	SW8270 (SIM)	
Phenanthrene	0.06	0.050	ug/L	12/10/13	DD	SW8270 (SIM)	
Pyridine	ND	0.50	ug/L	12/10/13	DD	SW8270 (SIM)	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	59		%	12/10/13	DD	15 - 110 %	
% 2-Fluorobiphenyl	86		%	12/10/13	DD	30 - 130 %	
% 2-Fluorophenol	<5		%	12/10/13	DD	15 - 110 %	3
% Nitrobenzene-d5	108		%	12/10/13	DD	30 - 130 %	
% Phenol-d5	<5		%	12/10/13	DD	15 - 110 %	3
% Terphenyl-d14	112		%	12/10/13	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.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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.

* Poor surrogate recovery was observed for semivolatiles and there was insufficient sample for re-extraction. The other surrogates associated with this sample were within QA/QC criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/06/13	9:55
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86251

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3 DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Aluminum	< 0.010	0.010	mg/L	12/10/13	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	12/10/13	LK	SW6010
Barium	0.067	0.002	mg/L	12/10/13	LK	SW6010
Beryllium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Calcium	57.2	0.010	mg/L	12/10/13	LK	SW6010
Cadmium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Cobalt	0.012	0.002	mg/L	12/10/13	LK	SW6010
Chromium	< 0.001	0.001	mg/L	12/10/13	LK	SW6010
Copper	< 0.005	0.005	mg/L	12/10/13	LK	SW6010
Iron	0.055	0.010	mg/L	12/10/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	12/10/13	RS	SW7470
Potassium	3.9	0.1	mg/L	12/10/13	LK	SW6010
Magnesium	15.5	0.01	mg/L	12/10/13	LK	SW6010
Manganese	2.29	0.010	mg/L	12/10/13	EK	SW6010
Sodium	81.6	1.0	mg/L	12/10/13	EK	SW6010
Nickel	0.025	0.001	mg/L	12/10/13	LK	SW6010
Lead	< 0.002	0.002	mg/L	12/10/13	LK	SW6010
Antimony	< 0.005	0.005	mg/L	12/10/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	12/10/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	12/10/13	RS	SM3113B/SW70
Vanadium	< 0.002	0.002	mg/L	12/10/13	LK	SW6010
Zinc	0.005	0.002	mg/L	12/10/13	LK	SW6010
Mercury Digestion	Completed			12/10/13	I/I	SW7470
PCB Extraction	Completed			12/09/13	T	SW3510C
Extraction for Pest (2 Liter)	Completed			12/09/13	T	SW3510
Semi-Volatile Extraction	Completed			12/09/13	E/D/D	SW3520
Total Metals Digestion	Completed			12/09/13	AG	SW846 - 3050

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3 DUPLICATE

Phoenix I.D.: BF86251

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Polychlorinated Biphenyls							
PCB-1016	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1221	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1232	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1242	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1248	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1254	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1260	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1262	ND	0.13	ug/L	12/11/13	AW	8082	
PCB-1268	ND	0.13	ug/L	12/11/13	AW	8082	
QA/QC Surrogates							
% DCBP	63		%	12/11/13	AW	30 - 150 %	
% TCMX	49		%	12/11/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	0.66	ug/L	12/11/13	MH	SW8081	
4,4' -DDE	ND	0.66	ug/L	12/11/13	MH	SW8081	
4,4' -DDT	ND	0.66	ug/L	12/11/13	MH	SW8081	
a-BHC	ND	0.33	ug/L	12/11/13	MH	SW8081	
Alachlor	ND	0.99	ug/L	12/11/13	MH	SW8081	1
Aldrin	ND	0.020	ug/L	12/11/13	MH	SW8081	
b-BHC	ND	0.066	ug/L	12/11/13	MH	SW8081	
Chlordane	ND	3.9	ug/L	12/11/13	MH	SW8081	
d-BHC	ND	0.33	ug/L	12/11/13	MH	SW8081	
Dieldrin	ND	0.020	ug/L	12/11/13	MH	SW8081	
Endosulfan I	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endosulfan II	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endosulfan Sulfate	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endrin	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endrin Aldehyde	ND	0.66	ug/L	12/11/13	MH	SW8081	
Endrin ketone	ND	0.66	ug/L	12/11/13	MH	SW8081	
g-BHC (Lindane)	ND	0.33	ug/L	12/11/13	MH	SW8081	
Heptachlor	ND	0.33	ug/L	12/11/13	MH	SW8081	
Heptachlor epoxide	ND	0.33	ug/L	12/11/13	MH	SW8081	
Methoxychlor	ND	1.3	ug/L	12/11/13	MH	SW8081	
Toxaphene	ND	13	ug/L	12/11/13	MH	SW8081	
QA/QC Surrogates							
%DCBP (Surrogate Rec)	Diluted Out		%	12/11/13	MH	30 - 150 %	
%TCMX (Surrogate Rec)	Diluted Out		%	12/11/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3 DUPLICATE

Phoenix I.D.: BF86251

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	12/10/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	12/10/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	12/10/13	HM	SW8260	
Acetone	ND	25	ug/L	12/10/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	12/10/13	HM	SW8260	
Benzene	ND	0.70	ug/L	12/10/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Bromoform	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	12/10/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroform	ND	5.0	ug/L	12/10/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,2-Dichloroethene	1.7	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	12/10/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3 DUPLICATE

Phoenix I.D.: BF86251

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Styrene	ND	1.0	ug/L	12/10/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Tetrachloroethene	120	5.0	ug/L	12/10/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	12/10/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Total Xylenes	ND	2.0	ug/L	12/10/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	12/10/13	HM	SW8260	
Trichloroethene	2.8	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	12/10/13	HM	70 - 130 %	
% Bromofluorobenzene	100		%	12/10/13	HM	70 - 130 %	
% Dibromofluoromethane	101		%	12/10/13	HM	70 - 130 %	
% Toluene-d8	100		%	12/10/13	HM	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	12/11/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	12/11/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	12/11/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	12/11/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	12/11/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	12/11/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	12/11/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	12/11/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	12/11/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	12/11/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	12/11/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	12/11/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	12/11/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	12/11/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	12/11/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	12/11/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	12/11/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	12/11/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	12/11/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	12/11/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	12/11/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	12/11/13	DD	SW8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Aniline	ND	10	ug/L	12/11/13	DD	SW8270
Anthracene	ND	5.0	ug/L	12/11/13	DD	SW8270
Benzidine	ND	50	ug/L	12/11/13	DD	SW8270
Benzoic acid	ND	50	ug/L	12/11/13	DD	SW8270
Benzyl butyl phthalate	ND	5.0	ug/L	12/11/13	DD	SW8270
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	12/11/13	DD	SW8270
Bis(2-chloroethyl)ether	ND	5.0	ug/L	12/11/13	DD	SW8270
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	12/11/13	DD	SW8270
Carbazole	ND	5.0	ug/L	12/11/13	DD	SW8270
Dibenzofuran	ND	5.0	ug/L	12/11/13	DD	SW8270
Diethyl phthalate	ND	5.0	ug/L	12/11/13	DD	SW8270
Dimethylphthalate	ND	5.0	ug/L	12/11/13	DD	SW8270
Di-n-butylphthalate	ND	5.0	ug/L	12/11/13	DD	SW8270
Di-n-octylphthalate	ND	5.0	ug/L	12/11/13	DD	SW8270
Fluoranthene	ND	5.0	ug/L	12/11/13	DD	SW8270
Fluorene	ND	5.0	ug/L	12/11/13	DD	SW8270
Hexachlorobutadiene	ND	5.0	ug/L	12/11/13	DD	SW8270
Hexachlorocyclopentadiene	ND	5.0	ug/L	12/11/13	DD	SW8270
Isophorone	ND	5.0	ug/L	12/11/13	DD	SW8270
Naphthalene	ND	5.0	ug/L	12/11/13	DD	SW8270
Nitrobenzene	ND	5.0	ug/L	12/11/13	DD	SW8270
N-Nitrosodimethylamine	ND	5.0	ug/L	12/11/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	12/11/13	DD	SW8270
N-Nitrosodiphenylamine	ND	5.0	ug/L	12/11/13	DD	SW8270
Phenol	ND	5.0	ug/L	12/11/13	DD	SW8270
Pyrene	ND	5.0	ug/L	12/11/13	DD	SW8270
QA/QC Surrogates						
% 2,4,6-Tribromophenol	89		%	12/11/13	DD	15 - 110 %
% 2-Fluorobiphenyl	88		%	12/11/13	DD	30 - 130 %
% 2-Fluorophenol	26		%	12/11/13	DD	15 - 110 %
% Nitrobenzene-d5	114		%	12/11/13	DD	30 - 130 %
% Phenol-d5	22		%	12/11/13	DD	15 - 110 %
% Terphenyl-d14	124		%	12/11/13	DD	30 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	12/10/13	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.02	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	12/10/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	12/10/13	DD	SW8270 (SIM)
Chrysene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	12/10/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.040	ug/L	12/10/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	12/10/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	12/10/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	12/10/13	DD	SW8270 (SIM)

Project ID: 874 WILLONGHBY AVE
Client ID: SB-7/MW-3 DUPLICATE

Phoenix I.D.: BF86251

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Pentachlorophenol	ND	0.80	ug/L	12/10/13	DD	SW8270 (SIM)
Phenanthrene	ND	0.050	ug/L	12/10/13	DD	SW8270 (SIM)
Pyridine	ND	0.50	ug/L	12/10/13	DD	SW8270 (SIM)
QA/QC Surrogates						
% 2,4,6-Tribromophenol	89		%	12/10/13	DD	15 - 110 %
% 2-Fluorobiphenyl	88		%	12/10/13	DD	30 - 130 %
% 2-Fluorophenol	26		%	12/10/13	DD	15 - 110 %
% Nitrobenzene-d5	114		%	12/10/13	DD	30 - 130 %
% Phenol-d5	22		%	12/10/13	DD	15 - 110 %
% Terphenyl-d14	124		%	12/10/13	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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

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.

* Poor surrogate recovery was observed for semivolatiles and there was insufficient sample for re-extraction. The other surrogates associated with this sample were within QA/QC criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

NY # 11301

Analysis Report

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/06/13	0:00
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86252

Project ID: 874 WILLONGHBY AVE
Client ID: TB WATER

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	12/10/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	12/10/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	12/10/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: TB WATER

Phoenix I.D.: BF86252

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Acetone	ND	25	ug/L	12/10/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	12/10/13	HM	SW8260	
Benzene	ND	0.70	ug/L	12/10/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Bromoform	ND	1.0	ug/L	12/10/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	12/10/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Chloroform	ND	5.0	ug/L	12/10/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	12/10/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	12/10/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	12/10/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	12/10/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	12/10/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Styrene	ND	1.0	ug/L	12/10/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Tetrachloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	12/10/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Total Xylenes	ND	2.0	ug/L	12/10/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	12/10/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	12/10/13	HM	SW8260	
Trichloroethene	ND	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	12/10/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	12/10/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	12/10/13	HM	70 - 130 %	
% Bromofluorobenzene	90		%	12/10/13	HM	70 - 130 %	
% Dibromofluoromethane	90		%	12/10/13	HM	70 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: TB WATER

Phoenix I.D.: BF86252

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	101		%	12/10/13	HM	70 - 130 %

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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/06/13	0:00
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86242
Phoenix ID: BF86253

Project ID: 874 WILLONGHBY AVE
Client ID: TB LOW LEVEL

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/06/13		E160.3
Field Extraction	Completed			12/06/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	12/09/13	HM	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	12/09/13	HM	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	12/09/13	HM	SW8260
2-Hexanone	ND	25	ug/Kg	12/09/13	HM	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	12/09/13	HM	SW8260 1

Project ID: 874 WILLONGHBY AVE
Client ID: TB LOW LEVEL

Phoenix I.D.: BF86253

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Chlorotoluene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
4-Methyl-2-pentanone	ND	25	ug/Kg	12/09/13	HM	SW8260	
Acetone	ND	30	ug/Kg	12/09/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Benzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Bromobenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Bromochloromethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Bromodichloromethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Bromoform	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Bromomethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Carbon tetrachloride	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Chlorobenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Chloroethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Chloroform	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Chloromethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Dibromochloromethane	ND	3.0	ug/Kg	12/09/13	HM	SW8260	
Dibromomethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Dichlorodifluoromethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Ethylbenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Hexachlorobutadiene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Isopropylbenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
m&p-Xylene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Methyl Ethyl Ketone	ND	30	ug/Kg	12/09/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	12/09/13	HM	SW8260	
Methylene chloride	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Naphthalene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
n-Butylbenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
n-Propylbenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
o-Xylene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
p-Isopropyltoluene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
sec-Butylbenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Styrene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
tert-Butylbenzene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Tetrachloroethene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	10	ug/Kg	12/09/13	HM	SW8260	1
Toluene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Total Xylenes	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	12/09/13	HM	SW8260	
Trichloroethene	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Trichlorofluoromethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
Vinyl chloride	ND	5.0	ug/Kg	12/09/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	12/09/13	HM	70 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: TB LOW LEVEL

Phoenix I.D.: BF86253

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Bromofluorobenzene	92		%	12/09/13	HM	70 - 130 %
% Dibromofluoromethane	107		%	12/09/13	HM	70 - 130 %
% Toluene-d8	100		%	12/09/13	HM	70 - 130 %

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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

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Phyllis Shiller, Laboratory Director
December 16, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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QA/QC Report

December 16, 2013

QA/QC Data

SDG I.D.: GBF86242

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 261682, QC Sample No: BF84945 (BF86248, BF86249, BF86250, BF86251)													
Thallium - Water	BRL	<0.002	<0.002	NC	98.4	101	2.6	89.1	78.7	12.4	75 - 125	20	
QA/QC Batch 261818, QC Sample No: BF85932 (BF86242, BF86243, BF86244, BF86245, BF86246, BF86247)													
ICP Metals - Soil													
Aluminum	BRL	3090	3190	3.20	102	106	3.8	NC	NC	NC	75 - 125	30	
Antimony	BRL	<4.0	<3.9	NC	115	117	1.7	91.1	93.4	2.5	75 - 125	30	
Arsenic	BRL	1.9	1.82	NC	92.9	97.9	5.2	87.1	89.9	3.2	75 - 125	30	
Barium	BRL	14.2	14.6	2.80	95.4	104	8.6	98.3	102	3.7	75 - 125	30	
Beryllium	BRL	<0.32	<0.31	NC	95.9	99.1	3.3	94.9	97.4	2.6	75 - 125	30	
Cadmium	BRL	<0.40	<0.39	NC	97.5	102	4.5	89.3	92.4	3.4	75 - 125	30	
Calcium	BRL	764	743	2.80	96.5	100	3.6	NC	NC	NC	75 - 125	30	
Chromium	BRL	6.54	6.69	2.30	96.9	103	6.1	94.5	97.3	2.9	75 - 125	30	
Cobalt	BRL	1.59	1.66	NC	100	104	3.9	97.0	99.4	2.4	75 - 125	30	
Copper	BRL	3.48	3.57	2.60	97.3	100	2.7	98.4	101	2.6	75 - 125	30	
Iron	BRL	5770	5780	0.20	102	105	2.9	NC	NC	NC	75 - 125	30	
Lead	BRL	1.73	1.72	NC	98.9	104	5.0	92.6	95.3	2.9	75 - 125	30	
Magnesium	BRL	1370	1380	0.70	102	107	4.8	NC	NC	NC	75 - 125	30	
Manganese	BRL	54.5	53.4	2.00	99.7	102	2.3	105	110	4.7	75 - 125	30	
Nickel	BRL	4.21	4.17	1.00	101	105	3.9	93.6	96.1	2.6	75 - 125	30	
Potassium	BRL	722	716	0.80	108	113	4.5	>130	>130	NC	75 - 125	30	m
Selenium	BRL	<1.6	<1.6	NC	94.7	99.7	5.1	77.7	80.4	3.4	75 - 125	30	
Silver	BRL	<0.40	<0.39	NC	97.5	102	4.5	93.6	96.6	3.2	75 - 125	30	
Sodium	BRL	1060	1040	1.90	>130	123	NC	NC	NC	NC	75 - 125	30	l
Thallium	BRL	<3.6	<3.5	NC	98.7	103	4.3	93.8	96.4	2.7	75 - 125	30	
Vanadium	BRL	9.68	9.60	0.80	97.5	101	3.5	96.6	99.1	2.6	75 - 125	30	
Zinc	BRL	8.55	8.48	0.80	98.5	102	3.5	92.9	94.2	1.4	75 - 125	30	
QA/QC Batch 261822, QC Sample No: BF85960 (BF86248, BF86249, BF86250, BF86251)													
ICP Metals - Aqueous													
Aluminum	BRL	0.096	0.074	25.9	90.0	91.1	1.2	87.1	88.2	1.3	75 - 125	20	r
Antimony	BRL	<0.005	<0.005	NC	93.0	95.2	2.3	99.3	97.1	2.2	75 - 125	20	
Arsenic	BRL	<0.004	<0.004	NC	91.1	92.8	1.8	98.0	95.4	2.7	75 - 125	20	
Barium	BRL	0.033	0.033	0	92.5	93.5	1.1	93.9	92.3	1.7	75 - 125	20	
Beryllium	BRL	<0.001	<0.001	NC	95.1	96.1	1.0	98.9	96.6	2.4	75 - 125	20	
Cadmium	BRL	<0.001	<0.001	NC	96.2	97.9	1.8	99.3	96.6	2.8	75 - 125	20	
Calcium	BRL	33.8	34.1	0.90	98.7	99.5	0.8	NC	NC	NC	75 - 125	20	
Chromium	BRL	<0.001	<0.001	NC	96.7	98.2	1.5	101	97.8	3.2	75 - 125	20	
Cobalt	BRL	<0.002	<0.002	NC	93.9	95.4	1.6	97.7	95.2	2.6	75 - 125	20	
Copper	BRL	<0.005	<0.005	NC	94.6	95.7	1.2	97.7	95.0	2.8	75 - 125	20	
Iron	BRL	0.851	0.871	2.30	95.1	96.2	1.2	96.2	91.9	4.6	75 - 125	20	
Lead	BRL	<0.002	<0.002	NC	94.5	95.8	1.4	98.2	94.9	3.4	75 - 125	20	
Magnesium	BRL	6.16	6.33	2.70	98.4	100	1.6	NC	NC	NC	75 - 125	20	
Manganese	BRL	0.295	0.300	1.70	96.3	97.7	1.4	99.1	95.9	3.3	75 - 125	20	

QA/QC Data

SDG I.D.: GBF86242

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Nickel	BRL	0.003	0.002	NC	97.1	98.2	1.1	100	97.2	2.8	75 - 125	20
Potassium	BRL	6.9	6.7	2.90	90.2	90.2	0.0	82.7	81.5	1.5	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	91.7	93.6	2.1	97.4	94.5	3.0	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	91.5	92.2	0.8	93.9	91.8	2.3	75 - 125	20
Sodium	BRL	44.3	42.9	3.20	91.1	91.5	0.4	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	93.6	94.5	1.0	96.7	94.0	2.8	75 - 125	20
Zinc	BRL	0.006	0.008	NC	93.0	94.5	1.6	98.8	95.9	3.0	75 - 125	20
QA/QC Batch 261874, QC Sample No: BF86246 (BF86242, BF86243, BF86244, BF86245, BF86246, BF86247)												
Mercury - Soil	BRL	0.25	0.15	NC	101	101	0.0	104	112	7.4	70 - 130	30
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 261876, QC Sample No: BF86250 (BF86248, BF86249, BF86250, BF86251)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	100	97.7	2.3	98.3	92.1	6.5	70 - 130	20
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												

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.

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QA/QC Report

December 16, 2013

QA/QC Data

SDG I.D.: GBF86242

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 261800, QC Sample No: BF85939 (BF86242, BF86243, BF86244, BF86245, BF86246, BF86247)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	71	79	10.7	84			40 - 140	30	
PCB-1221	ND							40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	86	93	7.8	94			40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	75	69	78	12.2	82			30 - 150	30	
% TCMX (Surrogate Rec)	100	92	99	7.3	103			30 - 150	30	
QA/QC Batch 261798, QC Sample No: BF85939 (BF86242, BF86243, BF86244, BF86245, BF86246, BF86247)										
Semivolatiles - Soil										
1,2,4,5-Tetrachlorobenzene	ND	86	86	0.0	90	96	6.5	30 - 130	30	
1,2,4-Trichlorobenzene	ND	88	88	0.0	87	96	9.8	30 - 130	30	
1,2-Dichlorobenzene	ND	86	85	1.2	86	94	8.9	30 - 130	30	
1,2-Diphenylhydrazine	ND	101	103	2.0	97	103	6.0	30 - 130	30	
1,3-Dichlorobenzene	ND	86	84	2.4	83	90	8.1	30 - 130	30	
1,4-Dichlorobenzene	ND	84	84	0.0	83	89	7.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	82	79	3.7	57	59	3.4	30 - 130	30	
2,4,6-Trichlorophenol	ND	89	89	0.0	76	84	10.0	30 - 130	30	
2,4-Dichlorophenol	ND	84	88	4.7	92	99	7.3	30 - 130	30	
2,4-Dimethylphenol	ND	55	61	10.3	43	64	39.3	30 - 130	30	r
2,4-Dinitrophenol	ND	11	45	121.4	5.3	9.3	54.8	30 - 130	30	l,m,r
2,4-Dinitrotoluene	ND	93	94	1.1	85	94	10.1	30 - 130	30	
2,6-Dinitrotoluene	ND	94	95	1.1	92	100	8.3	30 - 130	30	
2-Chloronaphthalene	ND	93	95	2.1	91	97	6.4	30 - 130	30	
2-Chlorophenol	ND	83	83	0.0	83	88	5.8	30 - 130	30	
2-Methylnaphthalene	ND	89	90	1.1	92	101	9.3	30 - 130	30	
2-Methylphenol (o-cresol)	ND	77	80	3.8	75	85	12.5	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	134	143	6.5	30 - 130	30	l,m
2-Nitrophenol	ND	94	98	4.2	73	80	9.2	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	75	79	5.2	84	91	8.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	>150	>150	NC	147	>150	NC	30 - 130	30	l,m
3-Nitroaniline	ND	109	107	1.9	93	111	17.6	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	64	80	22.2	18	28	43.5	30 - 130	30	m,r
4-Bromophenyl phenyl ether	ND	89	90	1.1	89	96	7.6	30 - 130	30	
4-Chloro-3-methylphenol	ND	88	84	4.7	21	70	107.7	30 - 130	30	m,r
4-Chloroaniline	ND	90	88	2.2	76	90	16.9	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	85	85	0.0	83	88	5.8	30 - 130	30	
4-Nitroaniline	ND	106	106	0.0	98	107	8.8	30 - 130	30	

QA/QC Data

SDG I.D.: GBF86242

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Nitrophenol	ND	84	78	7.4	10	24	82.4	30 - 130	30	m,r
Acenaphthene	ND	88	89	1.1	89	95	6.5	30 - 130	30	
Acenaphthylene	ND	94	94	0.0	95	102	7.1	30 - 130	30	
Acetophenone	ND	91	93	2.2	97	105	7.9	30 - 130	30	
Aniline	ND	99	100	1.0	83	95	13.5	30 - 130	30	
Anthracene	ND	91	92	1.1	95	99	4.1	30 - 130	30	
Benz(a)anthracene	ND	93	95	2.1	97	102	5.0	30 - 130	30	
Benzidine	ND	39	32	19.7	24	29	18.9	30 - 130	30	m
Benzo(a)pyrene	ND	86	90	4.5	88	93	5.5	30 - 130	30	
Benzo(b)fluoranthene	ND	95	101	6.1	102	111	8.5	30 - 130	30	
Benzo(ghi)perylene	ND	100	109	8.6	64	72	11.8	30 - 130	30	
Benzo(k)fluoranthene	ND	91	90	1.1	96	97	1.0	30 - 130	30	
Benzyl butyl phthalate	ND	94	97	3.1	108	110	1.8	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	91	92	1.1	93	100	7.3	30 - 130	30	
Bis(2-chloroethyl)ether	ND	78	80	2.5	85	91	6.8	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	89	91	2.2	96	104	8.0	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	90	96	6.5	98	99	1.0	30 - 130	30	
Carbazole	ND	97	100	3.0	112	116	3.5	30 - 130	30	
Chrysene	ND	81	83	2.4	84	88	4.7	30 - 130	30	
Dibenz(a,h)anthracene	ND	97	106	8.9	75	82	8.9	30 - 130	30	
Dibenzofuran	ND	90	91	1.1	90	95	5.4	30 - 130	30	
Diethyl phthalate	ND	97	98	1.0	92	100	8.3	30 - 130	30	
Dimethylphthalate	ND	94	94	0.0	92	99	7.3	30 - 130	30	
Di-n-butylphthalate	ND	93	95	2.1	94	100	6.2	30 - 130	30	
Di-n-octylphthalate	ND	92	97	5.3	96	101	5.1	30 - 130	30	
Fluoranthene	ND	92	90	2.2	98	98	0.0	30 - 130	30	
Fluorene	ND	89	90	1.1	90	95	5.4	30 - 130	30	
Hexachlorobenzene	ND	101	106	4.8	94	100	6.2	30 - 130	30	
Hexachlorobutadiene	ND	89	88	1.1	87	94	7.7	30 - 130	30	
Hexachlorocyclopentadiene	ND	86	87	1.2	33	51	42.9	30 - 130	30	r
Hexachloroethane	ND	89	89	0.0	76	87	13.5	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	97	107	9.8	72	78	8.0	30 - 130	30	
Isophorone	ND	99	100	1.0	98	107	8.8	30 - 130	30	
Naphthalene	ND	97	98	1.0	98	106	7.8	30 - 130	30	
Nitrobenzene	ND	91	92	1.1	94	103	9.1	30 - 130	30	
N-Nitrosodimethylamine	ND	79	84	6.1	77	83	7.5	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	87	90	3.4	94	102	8.2	30 - 130	30	
N-Nitrosodiphenylamine	ND	98	98	0.0	100	107	6.8	30 - 130	30	
Pentachloronitrobenzene	ND	96	93	3.2	80	88	9.5	30 - 130	30	
Pentachlorophenol	ND	60	63	4.9	26	20	26.1	30 - 130	30	m
Phenanthrene	ND	92	93	1.1	93	98	5.2	30 - 130	30	
Phenol	ND	77	77	0.0	68	97	35.2	30 - 130	30	r
Pyrene	ND	91	89	2.2	95	95	0.0	30 - 130	30	
Pyridine	ND	69	68	1.5	56	64	13.3	30 - 130	30	
% 2,4,6-Tribromophenol	95	98	99	1.0	69	78	12.2	30 - 130	30	
% 2-Fluorobiphenyl	82	89	89	0.0	82	91	10.4	30 - 130	30	
% 2-Fluorophenol	66	70	71	1.4	65	74	12.9	30 - 130	30	
% Nitrobenzene-d5	84	90	90	0.0	86	99	14.1	30 - 130	30	
% Phenol-d5	77	83	83	0.0	77	86	11.0	30 - 130	30	
% Terphenyl-d14	87	97	94	3.1	91	99	8.4	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 Data

SDG I.D.: GBF86242

QA/QC Batch 261809, QC Sample No: BF85996 (BF86248, BF86249, BF86250, BF86251)

Semivolatiles - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4,5-Tetrachlorobenzene	ND	93	90	3.3				30 - 130	20	
1,2,4-Trichlorobenzene	ND	88	87	1.1				30 - 130	20	
1,2-Dichlorobenzene	ND	86	86	0.0				30 - 130	20	
1,2-Diphenylhydrazine	ND	97	102	5.0				30 - 130	20	
1,3-Dichlorobenzene	ND	87	88	1.1				30 - 130	20	
1,4-Dichlorobenzene	ND	86	88	2.3				30 - 130	20	
2,4,5-Trichlorophenol	ND	101	106	4.8				30 - 130	20	
2,4,6-Trichlorophenol	ND	100	102	2.0				30 - 130	20	
2,4-Dichlorophenol	ND	93	93	0.0				30 - 130	20	
2,4-Dimethylphenol	ND	67	67	0.0				30 - 130	20	
2,4-Dinitrophenol	ND	94	102	8.2				30 - 130	20	
2,4-Dinitrotoluene	ND	103	104	1.0				30 - 130	20	
2,6-Dinitrotoluene	ND	104	102	1.9				30 - 130	20	
2-Chloronaphthalene	ND	97	98	1.0				30 - 130	20	
2-Chlorophenol	ND	82	83	1.2				30 - 130	20	
2-Methylnaphthalene	ND	91	92	1.1				30 - 130	20	
2-Methylphenol (o-cresol)	ND	79	80	1.3				30 - 130	20	
2-Nitroaniline	ND	149	>150	NC				30 - 130	20	I
2-Nitrophenol	ND	87	86	1.2				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	80	81	1.2				30 - 130	20	
3,3'-Dichlorobenzidine	ND	121	117	3.4				30 - 130	20	
3-Nitroaniline	ND	126	126	0.0				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	101	109	7.6				30 - 130	20	
4-Bromophenyl phenyl ether	ND	106	94	12.0				30 - 130	20	
4-Chloro-3-methylphenol	ND	101	97	4.0				30 - 130	20	
4-Chloroaniline	ND	70	74	5.6				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	99	106	6.8				30 - 130	20	
4-Nitroaniline	ND	106	107	0.9				30 - 130	20	
4-Nitrophenol	ND	97	101	4.0				15 - 130	20	
Acenaphthene	ND	99	104	4.9				30 - 130	20	
Acenaphthylene	ND	100	101	1.0				30 - 130	20	
Acetophenone	ND	93	94	1.1				30 - 130	20	
Aniline	ND	30	29	3.4				30 - 130	20	I
Anthracene	ND	104	100	3.9				30 - 130	20	
Benz(a)anthracene	ND	99	100	1.0				30 - 130	20	
Benzidine	ND	<5	<5	NC				30 - 130	20	I
Benzo(a)pyrene	ND	94	97	3.1				30 - 130	20	
Benzo(b)fluoranthene	ND	107	117	8.9				30 - 130	20	
Benzo(ghi)perylene	ND	99	103	4.0				30 - 130	20	
Benzo(k)fluoranthene	ND	101	111	9.4				30 - 130	20	
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20	
Benzyl butyl phthalate	ND	109	101	7.6				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	88	88	0.0				30 - 130	20	
Bis(2-chloroethyl)ether	ND	82	84	2.4				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	86	91	5.6				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	109	110	0.9				30 - 130	20	
Carbazole	ND	129	123	4.8				30 - 130	20	
Chrysene	ND	103	103	0.0				30 - 130	20	
Dibenz(a,h)anthracene	ND	99	102	3.0				30 - 130	20	
Dibenzofuran	ND	96	96	0.0				30 - 130	20	

QA/QC Data

SDG I.D.: GBF86242

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Diethyl phthalate	ND	100	102	2.0				30 - 130	20
Dimethylphthalate	ND	101	100	1.0				30 - 130	20
Di-n-butylphthalate	ND	112	104	7.4				30 - 130	20
Di-n-octylphthalate	ND	107	107	0.0				30 - 130	20
Fluoranthene	ND	110	104	5.6				30 - 130	20
Fluorene	ND	100	107	6.8				30 - 130	20
Hexachlorobenzene	ND	108	98	9.7				30 - 130	20
Hexachlorobutadiene	ND	89	93	4.4				30 - 130	20
Hexachlorocyclopentadiene	ND	78	76	2.6				30 - 130	20
Hexachloroethane	ND	85	83	2.4				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	98	100	2.0				30 - 130	20
Isophorone	ND	97	97	0.0				30 - 130	20
Naphthalene	ND	91	94	3.2				30 - 130	20
Nitrobenzene	ND	87	89	2.3				30 - 130	20
N-Nitrosodimethylamine	ND	79	80	1.3				30 - 130	20
N-Nitrosodi-n-propylamine	ND	86	91	5.6				30 - 130	20
N-Nitrosodiphenylamine	ND	103	107	3.8				30 - 130	20
Pentachloronitrobenzene	ND	108	101	6.7				30 - 130	20
Pentachlorophenol	ND	119	114	4.3				30 - 130	20
Phenanthrene	ND	103	101	2.0				30 - 130	20
Phenol	ND	65	67	3.0				15 - 130	20
Pyrene	ND	111	98	12.4				30 - 130	20
Pyridine	ND	25	25	0.0				30 - 130	20
% 2,4,6-Tribromophenol	94	116	109	6.2				15 - 110	20
% 2-Fluorobiphenyl	82	95	99	4.1				30 - 130	20
% 2-Fluorophenol	62	63	64	1.6				15 - 110	20
% Nitrobenzene-d5	106	87	88	1.1				30 - 130	20
% Phenol-d5	44	66	67	1.5				15 - 110	20
% Terphenyl-d14	93	119	107	10.6				30 - 130	20

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 261849, QC Sample No: BF86217 (BF86248, BF86249, BF86250, BF86251)

Pesticides - Ground Water

4,4' -DDD	ND	134	136	1.5				40 - 140	20
4,4' -DDE	ND	117	119	1.7				40 - 140	20
4,4' -DDT	ND	125	127	1.6				40 - 140	20
a-BHC	ND	102	104	1.9				40 - 140	20
a-Chlordane	ND	110	112	1.8				40 - 140	20
Alachlor	ND	NA	NA	NC				40 - 140	20
Aldrin	ND	104	107	2.8				40 - 140	20
b-BHC	ND	106	106	0.0				40 - 140	20
Chlordane	ND	NA	NA	NC				40 - 140	20
d-BHC	ND	97	99	2.0				40 - 140	20
Dieldrin	ND	114	117	2.6				40 - 140	20
Endosulfan I	ND	108	111	2.7				40 - 140	20
Endosulfan II	ND	112	115	2.6				40 - 140	20
Endosulfan sulfate	ND	115	117	1.7				40 - 140	20
Endrin	ND	120	121	0.8				40 - 140	20
Endrin aldehyde	ND	114	114	0.0				40 - 140	20
Endrin ketone	ND	129	129	0.0				40 - 140	20
g-BHC	ND	107	109	1.9				40 - 140	20

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
g-Chlordane	ND	108	110	1.8				40 - 140	20
Heptachlor	ND	103	106	2.9				40 - 140	20
Heptachlor epoxide	ND	108	110	1.8				40 - 140	20
Methoxychlor	ND	146	146	0.0				40 - 140	20
Toxaphene	ND	NA	NA	NC				40 - 140	20
% DCBP	92	93	95	2.1				30 - 150	20
% TCMX	74	78	75	3.9				30 - 150	20

Comment:

A LCS and LCS duplicate were performed instead of a matrix spike and matrix spike duplicate, unless otherwise noted. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane.

QA/QC Batch 261850, QC Sample No: BF86217 (BF86248, BF86249, BF86250, BF86251)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	94	89	5.5				40 - 140	20
PCB-1221	ND							40 - 140	20
PCB-1232	ND							40 - 140	20
PCB-1242	ND							40 - 140	20
PCB-1248	ND							40 - 140	20
PCB-1254	ND							40 - 140	20
PCB-1260	ND	96	90	6.5				40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	82	92	87	5.6				30 - 150	20
% TCMX (Surrogate Rec)	73	81	74	9.0				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 261920, QC Sample No: BF86243 (BF86242 (50, 1X) , BF86243 (83, 1X) , BF86244, BF86245, BF86246, BF86247, BF86253)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	96	92	4.3	95	93	2.1	70 - 130	30
1,1,1-Trichloroethane	ND	87	73	17.5	78	94	18.6	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	105	93	12.1	98	96	2.1	70 - 130	30
1,1,2-Trichloroethane	ND	107	100	6.8	97	95	2.1	70 - 130	30
1,1-Dichloroethane	ND	91	85	6.8	80	96	18.2	70 - 130	30
1,1-Dichloroethene	ND	95	93	2.1	83	100	18.6	70 - 130	30
1,1-Dichloropropene	ND	106	91	15.2	92	106	14.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	114	108	5.4	103	101	2.0	70 - 130	30
1,2,3-Trichloropropane	ND	101	91	10.4	91	89	2.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	120	114	5.1	106	107	0.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	115	108	6.3	102	108	5.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	115	105	9.1	97	96	1.0	70 - 130	30
1,2-Dibromoethane	ND	110	101	8.5	96	95	1.0	70 - 130	30
1,2-Dichlorobenzene	ND	106	103	2.9	98	100	2.0	70 - 130	30
1,2-Dichloroethane	ND	89	78	13.2	79	88	10.8	70 - 130	30
1,2-Dichloropropane	ND	104	105	1.0	98	103	5.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	108	103	4.7	101	108	6.7	70 - 130	30
1,3-Dichlorobenzene	ND	107	108	0.9	99	102	3.0	70 - 130	30
1,3-Dichloropropane	ND	104	100	3.9	111	97	13.5	70 - 130	30
1,4-Dichlorobenzene	ND	109	108	0.9	98	102	4.0	70 - 130	30
2,2-Dichloropropane	ND	87	78	10.9	78	98	22.7	70 - 130	30
2-Chlorotoluene	ND	114	110	3.6	102	108	5.7	70 - 130	30
2-Hexanone	ND	122	102	17.9	94	86	8.9	70 - 130	30
2-Isopropyltoluene	ND	106	103	2.9	103	111	7.5	70 - 130	30

QA/QC Data

SDG I.D.: GBF86242

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorotoluene	ND	114	112	1.8	102	107	4.8	70 - 130	30	
4-Methyl-2-pentanone	ND	116	99	15.8	97	95	2.1	70 - 130	30	
Acetone	ND	102	103	1.0	60	66	9.5	70 - 130	30	m
Acrylonitrile	ND	104	83	22.5	88	92	4.4	70 - 130	30	
Benzene	ND	105	103	1.9	97	104	7.0	70 - 130	30	
Bromobenzene	ND	104	105	1.0	98	102	4.0	70 - 130	30	
Bromochloromethane	ND	99	90	9.5	90	93	3.3	70 - 130	30	
Bromodichloromethane	ND	90	88	2.2	84	92	9.1	70 - 130	30	
Bromoform	ND	97	95	2.1	94	92	2.2	70 - 130	30	
Bromomethane	ND	134	117	13.5	94	101	7.2	70 - 130	30	l
Carbon Disulfide	ND	96	90	6.5	77	94	19.9	70 - 130	30	
Carbon tetrachloride	ND	85	77	9.9	79	96	19.4	70 - 130	30	
Chlorobenzene	ND	102	102	0.0	100	101	1.0	70 - 130	30	
Chloroethane	ND	98	93	5.2	54	66	20.0	70 - 130	30	m
Chloroform	ND	87	79	9.6	83	95	13.5	70 - 130	30	
Chloromethane	ND	128	111	14.2	88	93	5.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	101	94	7.2	86	105	19.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	110	105	4.7	97	105	7.9	70 - 130	30	
Dibromochloromethane	ND	98	96	2.1	102	92	10.3	70 - 130	30	
Dibromomethane	ND	97	92	5.3	88	92	4.4	70 - 130	30	
Dichlorodifluoromethane	ND	122	112	8.5	64	81	23.4	70 - 130	30	m
Ethylbenzene	ND	101	101	0.0	101	106	4.8	70 - 130	30	
Hexachlorobutadiene	ND	102	96	6.1	103	106	2.9	70 - 130	30	
Isopropylbenzene	ND	114	114	0.0	106	114	7.3	70 - 130	30	
m&p-Xylene	ND	103	107	3.8	103	106	2.9	70 - 130	30	
Methyl ethyl ketone	ND	118	78	40.8	81	81	0.0	70 - 130	30	r
Methyl t-butyl ether (MTBE)	ND	100	87	13.9	85	95	11.1	70 - 130	30	
Methylene chloride	ND	94	85	10.1	84	94	11.2	70 - 130	30	
Naphthalene	ND	122	112	8.5	111	108	2.7	70 - 130	30	
n-Butylbenzene	ND	112	106	5.5	103	111	7.5	70 - 130	30	
n-Propylbenzene	ND	118	117	0.9	104	111	6.5	70 - 130	30	
o-Xylene	ND	103	104	1.0	105	108	2.8	70 - 130	30	
p-Isopropyltoluene	ND	112	109	2.7	106	114	7.3	70 - 130	30	
sec-Butylbenzene	ND	106	104	1.9	103	112	8.4	70 - 130	30	
Styrene	ND	101	103	2.0	105	104	1.0	70 - 130	30	
tert-Butylbenzene	ND	111	109	1.8	104	114	9.2	70 - 130	30	
Tetrachloroethene	ND	100	111	10.4	114	108	5.4	70 - 130	30	
Tetrahydrofuran (THF)	ND	102	77	27.9	92	96	4.3	70 - 130	30	
Toluene	ND	101	104	2.9	99	104	4.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	99	90	9.5	83	101	19.6	70 - 130	30	
trans-1,3-Dichloropropene	ND	101	95	6.1	91	96	5.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	114	101	12.1	97	95	2.1	70 - 130	30	
Trichloroethene	ND	104	108	3.8	97	104	7.0	70 - 130	30	
Trichlorofluoromethane	ND	90	83	8.1	<40	54	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	97	91	6.4	84	102	19.4	70 - 130	30	
Vinyl chloride	ND	111	104	6.5	82	98	17.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	101	99	2.0	97	98	1.0	70 - 130	30	
% Bromofluorobenzene	93	93	90	3.3	98	94	4.2	70 - 130	30	
% Dibromofluoromethane	106	104	93	11.2	96	97	1.0	70 - 130	30	
% Toluene-d8	102	98	99	1.0	100	100	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Data

SDG I.D.: GBF86242

QA/QC Batch 262074, QC Sample No: BF86252 (BF86248 (2, 1X) , BF86249 (5, 1X) , BF86250 (5, 1, 10X) , BF86251 (5, 1X) , BF86252)

Volatiles - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	90	117	26.1	102	104	1.9	70 - 130	30	
1,1,1-Trichloroethane	ND	85	108	23.8	98	97	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	79	102	25.4	86	93	7.8	70 - 130	30	
1,1,2-Trichloroethane	ND	79	113	35.4	84	98	15.4	70 - 130	30	r
1,1-Dichloroethane	ND	83	110	28.0	95	94	1.1	70 - 130	30	
1,1-Dichloroethene	ND	82	104	23.7	94	91	3.2	70 - 130	30	
1,1-Dichloropropene	ND	83	106	24.3	98	95	3.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	82	124	40.8	69	98	34.7	70 - 130	30	m,r
1,2,3-Trichloropropane	ND	84	107	24.1	88	93	5.5	70 - 130	30	
1,2,4-Trichlorobenzene	ND	78	118	40.8	76	89	15.8	70 - 130	30	r
1,2,4-Trimethylbenzene	ND	96	117	19.7	106	96	9.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	77	116	40.4	82	100	19.8	70 - 130	30	r
1,2-Dibromoethane	ND	82	116	34.3	86	102	17.0	70 - 130	30	r
1,2-Dichlorobenzene	ND	81	106	26.7	89	90	1.1	70 - 130	30	
1,2-Dichloroethane	ND	80	109	30.7	86	98	13.0	70 - 130	30	r
1,2-Dichloropropane	ND	82	112	30.9	91	96	5.3	70 - 130	30	r
1,3,5-Trimethylbenzene	ND	94	110	15.7	108	97	10.7	70 - 130	30	
1,3-Dichlorobenzene	ND	86	109	23.6	96	90	6.5	70 - 130	30	
1,3-Dichloropropane	ND	85	110	25.6	88	98	10.8	70 - 130	30	
1,4-Dichlorobenzene	ND	86	108	22.7	95	91	4.3	70 - 130	30	
2,2-Dichloropropane	ND	85	107	22.9	81	79	2.5	70 - 130	30	
2-Chlorotoluene	ND	93	111	17.6	106	92	14.1	70 - 130	30	
2-Hexanone	ND	79	118	39.6	72	96	28.6	70 - 130	30	r
2-Isopropyltoluene	ND	88	109	21.3	103	90	13.5	70 - 130	30	
4-Chlorotoluene	ND	91	108	17.1	103	92	11.3	70 - 130	30	
4-Methyl-2-pentanone	ND	79	124	44.3	74	100	29.9	70 - 130	30	r
Acetone	ND	84	112	28.6	85	101	17.2	70 - 130	30	
Acrylonitrile	ND	78	116	39.2	81	99	20.0	70 - 130	30	r
Benzene	ND	83	108	26.2	97	95	2.1	70 - 130	30	
Bromobenzene	ND	87	105	18.8	97	93	4.2	70 - 130	30	
Bromochloromethane	ND	79	110	32.8	87	98	11.9	70 - 130	30	r
Bromodichloromethane	ND	80	112	33.3	94	102	8.2	70 - 130	30	r
Bromoform	ND	87	117	29.4	95	113	17.3	70 - 130	30	
Bromomethane	ND	60	77	24.8	57	69	19.0	70 - 130	30	l,m
Carbon Disulfide	ND	82	100	19.8	98	90	8.5	70 - 130	30	
Carbon tetrachloride	ND	86	108	22.7	104	100	3.9	70 - 130	30	
Chlorobenzene	ND	85	109	24.7	95	92	3.2	70 - 130	30	
Chloroethane	ND	83	105	23.4	88	89	1.1	70 - 130	30	
Chloroform	ND	82	112	30.9	92	96	4.3	70 - 130	30	r
Chloromethane	ND	87	104	17.8	96	87	9.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	86	115	28.9	95	97	2.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	84	116	32.0	90	100	10.5	70 - 130	30	r
Dibromochloromethane	ND	90	118	26.9	95	108	12.8	70 - 130	30	
Dibromomethane	ND	80	112	33.3	87	98	11.9	70 - 130	30	r
Dichlorodifluoromethane	ND	86	103	18.0	96	98	2.1	70 - 130	30	
Ethylbenzene	ND	83	106	24.3	99	91	8.4	70 - 130	30	
Hexachlorobutadiene	ND	78	104	28.6	92	76	19.0	70 - 130	30	
Isopropylbenzene	ND	96	109	12.7	107	90	17.3	70 - 130	30	
m&p-Xylene	ND	85	108	23.8	99	91	8.4	70 - 130	30	

QA/QC Data

SDG I.D.: GBF86242

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl ethyl ketone	ND	70	111	45.3	69	89	25.3	70 - 130	30	m,r
Methyl t-butyl ether (MTBE)	ND	71	109	42.2	76	97	24.3	70 - 130	30	r
Methylene chloride	ND	77	100	26.0	81	86	6.0	70 - 130	30	
Naphthalene	ND	83	130	44.1	67	101	40.5	70 - 130	30	m,r
n-Butylbenzene	ND	91	115	23.3	102	88	14.7	70 - 130	30	
n-Propylbenzene	ND	97	112	14.4	105	89	16.5	70 - 130	30	
o-Xylene	ND	88	113	24.9	99	94	5.2	70 - 130	30	
p-Isopropyltoluene	ND	93	112	18.5	107	92	15.1	70 - 130	30	
sec-Butylbenzene	ND	89	107	18.4	104	88	16.7	70 - 130	30	
Styrene	ND	83	111	28.9	97	96	1.0	70 - 130	30	
tert-Butylbenzene	ND	92	111	18.7	106	90	16.3	70 - 130	30	
Tetrachloroethene	ND	87	105	18.8	102	91	11.4	70 - 130	30	
Tetrahydrofuran (THF)	ND	70	107	41.8	69	93	29.6	70 - 130	30	m,r
Toluene	ND	82	109	28.3	96	92	4.3	70 - 130	30	
trans-1,2-Dichloroethene	ND	63	83	27.4	80	73	9.2	70 - 130	30	l
trans-1,3-Dichloropropene	ND	84	118	33.7	90	102	12.5	70 - 130	30	r
trans-1,4-dichloro-2-butene	ND	98	123	22.6	88	98	10.8	70 - 130	30	
Trichloroethene	ND	84	110	26.8	100	98	2.0	70 - 130	30	
Trichlorofluoromethane	ND	83	104	22.5	98	93	5.2	70 - 130	30	
Trichlorotrifluoroethane	ND	81	100	21.0	88	89	1.1	70 - 130	30	
Vinyl chloride	ND	83	104	22.5	89	93	4.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	97	97	98	1.0	96	99	3.1	70 - 130	30	
% Bromofluorobenzene	93	97	100	3.0	95	101	6.1	70 - 130	30	
% Dibromofluoromethane	94	98	101	3.0	96	106	9.9	70 - 130	30	
% Toluene-d8	101	98	101	3.0	99	98	1.0	70 - 130	30	

Comment:

A blank MS/MSD was analyzed with this batch.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 261987, QC Sample No: BF86254 (BF86245 (50X) , BF86246 (38X))

Volatiles - Soil

1,2,3-Trichlorobenzene	ND	90	90	0.0	108	100	7.7	70 - 130	30	
1,2,3-Trichloropropane	ND	95	96	1.0	95	88	7.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	82	87	5.9	114	106	7.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	94	107	12.9	103	108	4.7	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	112	99	12.3	107	92	15.1	70 - 130	30	
1,2-Dichlorobenzene	ND	89	97	8.6	99	99	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	92	104	12.2	102	108	5.7	70 - 130	30	
1,3-Dichlorobenzene	ND	88	95	7.7	100	103	3.0	70 - 130	30	
1,4-Dichlorobenzene	ND	86	93	7.8	100	101	1.0	70 - 130	30	
2-Chlorotoluene	ND	95	106	10.9	102	107	4.8	70 - 130	30	
2-Isopropyltoluene	ND	94	106	12.0	103	110	6.6	70 - 130	30	
4-Chlorotoluene	ND	91	100	9.4	103	109	5.7	70 - 130	30	
Bromobenzene	ND	95	102	7.1	99	101	2.0	70 - 130	30	
Hexachlorobutadiene	ND	90	100	10.5	108	108	0.0	70 - 130	30	
Isopropylbenzene	ND	101	117	14.7	105	112	6.5	70 - 130	30	
Naphthalene	ND	108	105	2.8	114	103	10.1	70 - 130	30	
n-Butylbenzene	ND	87	101	14.9	105	111	5.6	70 - 130	30	
n-Propylbenzene	ND	102	116	12.8	102	111	8.5	70 - 130	30	
p-Isopropyltoluene	ND	94	108	13.9	106	113	6.4	70 - 130	30	
sec-Butylbenzene	ND	94	108	13.9	103	112	8.4	70 - 130	30	
tert-Butylbenzene	ND	99	114	14.1	103	113	9.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	101	96	5.1	100	93	7.3	70 - 130	30	

QA/QC Data

SDG I.D.: GBF86242

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 1,2-dichlorobenzene-d4	102	99	100	1.0	99	98	1.0	70 - 130	30
% Bromofluorobenzene	94	95	95	0.0	99	95	4.1	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 261826, QC Sample No: BF86266 (BF86242, BF86243, BF86244, BF86245, BF86246, BF86247)

Pesticides - Soil

4,4' -DDD	ND	68	82	18.7	78	79	1.3	40 - 140	30
4,4' -DDE	ND	73	89	19.8	85	85	0.0	40 - 140	30
4,4' -DDT	ND	67	83	21.3	79	79	0.0	40 - 140	30
a-BHC	ND	72	87	18.9	88	82	7.1	40 - 140	30
a-Chlordane	ND	74	88	17.3	85	82	3.6	40 - 140	30
Alachlor	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	74	88	17.3	88	83	5.8	40 - 140	30
b-BHC	ND	75	89	17.1	91	85	6.8	40 - 140	30
Chlordane	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
d-BHC	ND	62	74	17.6	76	71	6.8	40 - 140	30
Dieldrin	ND	79	92	15.2	90	88	2.2	40 - 140	30
Endosulfan I	ND	77	89	14.5	90	87	3.4	40 - 140	30
Endosulfan II	ND	71	85	17.9	86	85	1.2	40 - 140	30
Endosulfan sulfate	ND	66	78	16.7	77	76	1.3	40 - 140	30
Endrin	ND	67	86	24.8	84	84	0.0	40 - 140	30
Endrin aldehyde	ND	68	77	12.4	82	80	2.5	40 - 140	30
Endrin ketone	ND	80	89	10.7	87	85	2.3	40 - 140	30
g-BHC	ND	72	86	17.7	88	82	7.1	40 - 140	30
g-Chlordane	ND	75	88	16.0	86	84	2.4	40 - 140	30
Heptachlor	ND	73	89	19.8	89	84	5.8	40 - 140	30
Heptachlor epoxide	ND	75	88	16.0	88	84	4.7	40 - 140	30
Methoxychlor	ND	69	80	14.8	77	77	0.0	40 - 140	30
Toxaphene	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	75	72	76	5.4	66	75	12.8	30 - 150	30
% TCMX	73	82	91	10.4	86	88	2.3	30 - 150	30

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
December 16, 2013

Monday, December 16, 2013

Requested Criteria: None

State: NY

Sample Criteria Exceedences Report

GBF86242 - AEAS-INC

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.

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

December 16, 2013

SDG I.D.: GBF86242

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

WICIP

NY/NJ CHAIN OF CUSTODY RECORD

Temp 4 °C Pg of

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

Data Delivery:
☐ Fax #:
☒ Email: info@aeasinc.com

Customer: American Environmental Assessment and Solutions Inc
Address: 674 Lafayette Avenue, 3rd Floor Brooklyn, NY 11216

Project: 874 Willoughby Avenue
Report to: Eugene
Invoice to: American Environmental

Project P.O:
Phone #: 718-204-0653
Fax #: 718-906-4010

Client Sample - Information - Identification

Sampler's Signature: Eugene Kim Date: 12/6/13

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCS by EPA Method 8260B	SVOCS by EPA Method 8270C	PCBs - EPA Method 608A	TAL Metals - EPA Method 6020	Pesticides - EPA Method 608.2	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container ( ) 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
86242	SB-1 (0-2)	Soil	12/6/13	1:22 PM	→	→	→	→	→	2	1								
86243	SB-1 (10-12)	Soil		1:35 PM	→	→	→	→	→	2	1								
86244	SB-7 (0-2)	Soil		8:25 AM	→	→	→	→	→	2	1								
86245	SB-7 (10-12)	Soil		8:34 AM	→	→	→	→	→	2	1								
86246	SB-5 (0-2)	Soil		10:48 AM	→	→	→	→	→	2	1								
86247	SB-5 (10-12)	Soil		11:00 AM	→	→	→	→	→	2	1								
86248	SB-1/MW-1	GW		2:15 PM	→	→	→	→	→			2	2			1			
86249	SB-7/MW-3	GW		9:55 AM	→	→	→	→	→			2	2			1			
86250	SB-5/MW-4	GW		12:00 PM	→	→	→	→	→			2	2			1			
86251	SB-7/MW-3 Duplicate	GW	↓	9:55 AM	→	→	→	→	→			2	2			1			
~~86250~~	TB Water				→	→	→	→	→										
~~86251~~ TB	TB Low Level				→	→	→	→	→										

86252
86253

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	12-9-13	12:00
[signature]	TFO [signature]	12-9-13	16:50

Comments, Special Requirements or Regulations:

E designation.

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
☐ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

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

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	13:44
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85150

Project ID: 874 WILLONGHBY
Client ID: SB-2 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	12/06/13	LK	SW6010
Aluminum	6420	58	mg/Kg	12/06/13	LK	SW6010
Arsenic	5.8	0.8	mg/Kg	12/06/13	LK	SW6010
Barium	145	0.38	mg/Kg	12/06/13	LK	SW6010
Beryllium	0.32	0.31	mg/Kg	12/06/13	LK	SW6010
Calcium	24800	58	mg/Kg	12/06/13	LK	SW6010
Cadmium	0.64	0.38	mg/Kg	12/06/13	LK	SW6010
Cobalt	3.87	0.38	mg/Kg	12/06/13	LK	SW6010
Chromium	13.2	0.38	mg/Kg	12/06/13	LK	SW6010
Copper	25.0	0.38	mg/kg	12/06/13	LK	SW6010
Iron	12600	58	mg/Kg	12/06/13	LK	SW6010
Mercury	0.42	0.08	mg/Kg	12/06/13	RS	SW-7471
Potassium	759	5.8	mg/Kg	12/06/13	LK	SW6010
Magnesium	5370	5.8	mg/Kg	12/06/13	LK	SW6010
Manganese	386	3.8	mg/Kg	12/07/13	LK	SW6010
Sodium	469	5.8	mg/Kg	12/06/13	LK	SW6010
Nickel	10.6	0.38	mg/Kg	12/06/13	LK	SW6010
Lead	182	3.8	mg/Kg	12/06/13	LK	SW6010
Antimony	< 3.8	3.8	mg/Kg	12/07/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	12/06/13	LK	SW6010
Thallium	< 3.5	3.5	mg/Kg	12/06/13	LK	SW6010
Vanadium	20.8	0.38	mg/Kg	12/06/13	LK	SW6010
Zinc	222	3.8	mg/Kg	12/07/13	LK	SW6010
Percent Solid	88		%	12/05/13	I	E160.3
Soil Extraction for PCB	Completed			12/05/13	BB/V	SW3545
Soil Extraction for Pesticide	Completed			12/05/13	BB	SW3545
Soil Extraction for SVOA	Completed			12/05/13	JJ/FV	SW3545
Mercury Digestion	Completed			12/06/13	I/I	SW7471

Project ID: 874 WILLONGHBY
Client ID: SB-2 (0-2)

Phoenix I.D.: BF85150

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/05/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			12/04/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1221	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1232	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1242	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1248	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1254	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1260	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1262	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1268	ND	370	ug/Kg	12/06/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	94		%	12/06/13	AW	30 - 150 %	
% TCMX	88		%	12/06/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	35	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDE	ND	35	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDT	ND	35	ug/Kg	12/06/13	MH	SW8081	
a-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Alachlor	ND	18	ug/Kg	12/06/13	MH	SW8081	1
Aldrin	ND	5.5	ug/Kg	12/06/13	MH	SW8081	
b-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Chlordane	110	55	ug/Kg	12/06/13	MH	SW8081	
d-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Dieldrin	ND	5.5	ug/Kg	12/06/13	MH	SW8081	
Endosulfan I	ND	18	ug/Kg	12/06/13	MH	SW8081	
Endosulfan II	ND	35	ug/Kg	12/06/13	MH	SW8081	
Endosulfan sulfate	ND	35	ug/Kg	12/06/13	MH	SW8081	
Endrin	ND	35	ug/Kg	12/06/13	MH	SW8081	
Endrin aldehyde	ND	35	ug/Kg	12/06/13	MH	SW8081	
Endrin ketone	ND	35	ug/Kg	12/06/13	MH	SW8081	
g-BHC	ND	5.5	ug/Kg	12/06/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	12/06/13	MH	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	12/06/13	MH	SW8081	
Methoxychlor	ND	180	ug/Kg	12/06/13	MH	SW8081	
Toxaphene	ND	180	ug/Kg	12/06/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	79		%	12/06/13	MH	30 - 150 %	
% TCMX	87		%	12/06/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,1,1-Trichloroethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	7.9	ug/Kg	12/06/13	HM	SW8260	
1,1,2-Trichloroethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethene	ND	13	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-2 (0-2)

Phoenix I.D.: BF85150

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichloropropane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromoethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichlorobenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloroethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloropropane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichlorobenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichloropropane	ND	13	ug/Kg	12/06/13	HM	SW8260	
1,4-Dichlorobenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
2,2-Dichloropropane	ND	13	ug/Kg	12/06/13	HM	SW8260	
2-Chlorotoluene	ND	13	ug/Kg	12/06/13	HM	SW8260	
2-Hexanone	ND	66	ug/Kg	12/06/13	HM	SW8260	
2-Isopropyltoluene	ND	13	ug/Kg	12/06/13	HM	SW8260	1
4-Chlorotoluene	ND	13	ug/Kg	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	66	ug/Kg	12/06/13	HM	SW8260	
Acetone	ND	79	ug/Kg	12/06/13	HM	SW8260	
Acrylonitrile	ND	13	ug/Kg	12/06/13	HM	SW8260	
Benzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Bromobenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Bromochloromethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
Bromodichloromethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
Bromoform	ND	13	ug/Kg	12/06/13	HM	SW8260	
Bromomethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
Carbon Disulfide	ND	13	ug/Kg	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	13	ug/Kg	12/06/13	HM	SW8260	
Chlorobenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Chloroethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
Chloroform	ND	13	ug/Kg	12/06/13	HM	SW8260	
Chloromethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	13	ug/Kg	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Dibromochloromethane	ND	7.9	ug/Kg	12/06/13	HM	SW8260	
Dibromomethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
Ethylbenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Isopropylbenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
m&p-Xylene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Methyl Ethyl Ketone	ND	79	ug/Kg	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	26	ug/Kg	12/06/13	HM	SW8260	
Methylene chloride	ND	13	ug/Kg	12/06/13	HM	SW8260	
Naphthalene	ND	13	ug/Kg	12/06/13	HM	SW8260	
n-Butylbenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
n-Propylbenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-2 (0-2)

Phoenix I.D.: BF85150

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	13	ug/Kg	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	13	ug/Kg	12/06/13	HM	SW8260	
sec-Butylbenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Styrene	ND	13	ug/Kg	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Tetrachloroethene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	26	ug/Kg	12/06/13	HM	SW8260	1
Toluene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Total Xylenes	ND	13	ug/Kg	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	13	ug/Kg	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	13	ug/Kg	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	26	ug/Kg	12/06/13	HM	SW8260	
Trichloroethene	ND	13	ug/Kg	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	13	ug/Kg	12/06/13	HM	SW8260	
Vinyl chloride	ND	13	ug/Kg	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	12/06/13	HM	70 - 130 %	
% Bromofluorobenzene	85		%	12/06/13	HM	70 - 130 %	
% Dibromofluoromethane	97		%	12/06/13	HM	70 - 130 %	
% Toluene-d8	93		%	12/06/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	12/06/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrophenol	ND	590	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Nitroaniline	ND	590	ug/Kg	12/06/13	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	12/06/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	12/06/13	DD	SW 8270
3-Nitroaniline	ND	590	ug/Kg	12/06/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	12/06/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	12/06/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	12/06/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	12/06/13	DD	SW 8270

Project ID: 874 WILLONGHBY
Client ID: SB-2 (0-2)

Phoenix I.D.: BF85150

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	590	ug/Kg	12/06/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthene	280	260	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthylene	320	260	ug/Kg	12/06/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	12/06/13	DD	SW 8270	
Anthracene	980	260	ug/Kg	12/06/13	DD	SW 8270	
Benz(a)anthracene	2900	260	ug/Kg	12/06/13	DD	SW 8270	
Benzidine	ND	440	ug/Kg	12/06/13	DD	SW 8270	
Benzo(a)pyrene	3000	260	ug/Kg	12/06/13	DD	SW 8270	
Benzo(b)fluoranthene	3700	260	ug/Kg	12/06/13	DD	SW 8270	
Benzo(ghi)perylene	2400	260	ug/Kg	12/06/13	DD	SW 8270	
Benzo(k)fluoranthene	1200	260	ug/Kg	12/06/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	12/06/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	12/06/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Carbazole	ND	550	ug/Kg	12/06/13	DD	SW 8270	
Chrysene	3200	260	ug/Kg	12/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	530	260	ug/Kg	12/06/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Fluoranthene	5100	260	ug/Kg	12/06/13	DD	SW 8270	
Fluorene	330	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	1900	260	ug/Kg	12/06/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Pentachlorophenol	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Phenanthrene	4500	260	ug/Kg	12/06/13	DD	SW 8270	
Phenol	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Pyrene	4900	260	ug/Kg	12/06/13	DD	SW 8270	
Pyridine	ND	370	ug/Kg	12/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	103		%	12/06/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	109		%	12/06/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY
Client ID: SB-2 (0-2)

Phoenix I.D.: BF85150

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	88		%	12/06/13	DD	30 - 130 %
% Nitrobenzene-d5	89		%	12/06/13	DD	30 - 130 %
% Phenol-d5	81		%	12/06/13	DD	30 - 130 %
% Terphenyl-d14	92		%	12/06/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	13:53
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85151

Project ID: 874 WILLONGHBY
Client ID: SB-2 (10-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.34	0.34	mg/Kg	12/06/13	TH	SW6010	
Aluminum	4020	52	mg/Kg	12/06/13	TH	SW6010	
Arsenic	1.9	0.7	mg/Kg	12/06/13	TH	SW6010	
Barium	46.3	0.34	mg/Kg	12/07/13	LK	SW6010	
Beryllium	0.34	0.28	mg/Kg	12/06/13	TH	SW6010	
Calcium	1920	5.2	mg/Kg	12/07/13	LK	SW6010	
Cadmium	< 0.34	0.34	mg/Kg	12/06/13	TH	SW6010	
Cobalt	4.97	0.34	mg/Kg	12/06/13	TH	SW6010	
Chromium	11.0	0.34	mg/Kg	12/06/13	TH	SW6010	
Copper	15.7	0.34	mg/kg	12/06/13	TH	SW6010	
Iron	20500	52	mg/Kg	12/07/13	LK	SW6010	B
Mercury	< 0.07	0.07	mg/Kg	12/06/13	RS	SW-7471	
Potassium	625	5.2	mg/Kg	12/07/13	LK	SW6010	
Magnesium	1310	5.2	mg/Kg	12/06/13	TH	SW6010	
Manganese	672	3.4	mg/Kg	12/07/13	LK	SW6010	B
Sodium	78.6	5.2	mg/Kg	12/07/13	LK	SW6010	
Nickel	10.4	0.34	mg/Kg	12/06/13	TH	SW6010	
Lead	15.7	0.34	mg/Kg	12/06/13	TH	SW6010	
Antimony	< 3.4	3.4	mg/Kg	12/07/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	12/06/13	TH	SW6010	
Thallium	< 3.1	3.1	mg/Kg	12/06/13	TH	SW6010	
Vanadium	17.7	0.34	mg/Kg	12/06/13	TH	SW6010	
Zinc	46.9	0.34	mg/Kg	12/07/13	LK	SW6010	B
Percent Solid	92		%	12/05/13	I	E160.3	
Soil Extraction for PCB	Completed			12/05/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			12/05/13	BB	SW3545	
Soil Extraction for SVOA	Completed			12/05/13	JJ/FV	SW3545	
Mercury Digestion	Completed			12/06/13	I/I	SW7471	

Project ID: 874 WILLONGHBY
Client ID: SB-2 (10-12)

Phoenix I.D.: BF85151

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/05/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			12/04/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	12/06/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	83		%	12/06/13	AW	30 - 150 %	
% TCMX	79		%	12/06/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	12/06/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	12/06/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	12/06/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	12/06/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	12/06/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	12/06/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	12/06/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	12/06/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	12/06/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endrin	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	12/06/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	12/06/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	12/06/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	12/06/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	12/06/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	12/06/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	73		%	12/06/13	MH	30 - 150 %	
% TCMX	83		%	12/06/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,1,1-Trichloroethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,1,2,2-Tetrachloroethane	ND	7.6	ug/Kg	12/06/13	RM	SW8260	
1,1,2-Trichloroethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,1-Dichloroethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,1-Dichloroethene	ND	13	ug/Kg	12/06/13	RM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-2 (10-12)

Phoenix I.D.: BF85151

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,2,3-Trichlorobenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,2,3-Trichloropropane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,2,4-Trichlorobenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,2,4-Trimethylbenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,2-Dibromo-3-chloropropane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,2-Dibromoethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,2-Dichlorobenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,2-Dichloroethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,2-Dichloropropane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,3,5-Trimethylbenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,3-Dichlorobenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,3-Dichloropropane	ND	13	ug/Kg	12/06/13	RM	SW8260	
1,4-Dichlorobenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
2,2-Dichloropropane	ND	13	ug/Kg	12/06/13	RM	SW8260	
2-Chlorotoluene	ND	13	ug/Kg	12/06/13	RM	SW8260	
2-Hexanone	ND	63	ug/Kg	12/06/13	RM	SW8260	
2-Isopropyltoluene	ND	13	ug/Kg	12/06/13	RM	SW8260	1
4-Chlorotoluene	ND	13	ug/Kg	12/06/13	RM	SW8260	
4-Methyl-2-pentanone	ND	63	ug/Kg	12/06/13	RM	SW8260	
Acetone	ND	76	ug/Kg	12/06/13	RM	SW8260	
Acrylonitrile	ND	13	ug/Kg	12/06/13	RM	SW8260	
Benzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Bromobenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Bromochloromethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
Bromodichloromethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
Bromoform	ND	13	ug/Kg	12/06/13	RM	SW8260	
Bromomethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
Carbon Disulfide	ND	13	ug/Kg	12/06/13	RM	SW8260	
Carbon tetrachloride	ND	13	ug/Kg	12/06/13	RM	SW8260	
Chlorobenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Chloroethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
Chloroform	ND	13	ug/Kg	12/06/13	RM	SW8260	
Chloromethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
cis-1,2-Dichloroethene	ND	13	ug/Kg	12/06/13	RM	SW8260	
cis-1,3-Dichloropropene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Dibromochloromethane	ND	7.6	ug/Kg	12/06/13	RM	SW8260	
Dibromomethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
Dichlorodifluoromethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
Ethylbenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Hexachlorobutadiene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Isopropylbenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
m&p-Xylene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Methyl Ethyl Ketone	ND	76	ug/Kg	12/06/13	RM	SW8260	
Methyl t-butyl ether (MTBE)	ND	25	ug/Kg	12/06/13	RM	SW8260	
Methylene chloride	ND	13	ug/Kg	12/06/13	RM	SW8260	
Naphthalene	ND	13	ug/Kg	12/06/13	RM	SW8260	
n-Butylbenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
n-Propylbenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	13	ug/Kg	12/06/13	RM	SW8260	
p-Isopropyltoluene	15	13	ug/Kg	12/06/13	RM	SW8260	
sec-Butylbenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Styrene	ND	13	ug/Kg	12/06/13	RM	SW8260	
tert-Butylbenzene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Tetrachloroethene	570	280	ug/Kg	12/05/13	RM	SW8260	
Tetrahydrofuran (THF)	ND	25	ug/Kg	12/06/13	RM	SW8260	1
Toluene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Total Xylenes	ND	13	ug/Kg	12/06/13	RM	SW8260	
trans-1,2-Dichloroethene	ND	13	ug/Kg	12/06/13	RM	SW8260	
trans-1,3-Dichloropropene	ND	13	ug/Kg	12/06/13	RM	SW8260	
trans-1,4-dichloro-2-butene	ND	25	ug/Kg	12/06/13	RM	SW8260	
Trichloroethene	ND	13	ug/Kg	12/06/13	RM	SW8260	
Trichlorofluoromethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
Trichlorotrifluoroethane	ND	13	ug/Kg	12/06/13	RM	SW8260	
Vinyl chloride	ND	13	ug/Kg	12/06/13	RM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	12/06/13	RM	70 - 130 %	
% Bromofluorobenzene	98		%	12/06/13	RM	70 - 130 %	
% Dibromofluoromethane	100		%	12/06/13	RM	70 - 130 %	
% Toluene-d8	101		%	12/06/13	RM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	350	ug/Kg	12/06/13	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrophenol	ND	560	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Nitroaniline	ND	560	ug/Kg	12/06/13	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	12/06/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	12/06/13	DD	SW 8270
3-Nitroaniline	ND	560	ug/Kg	12/06/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	12/06/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	350	ug/Kg	12/06/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	12/06/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	12/06/13	DD	SW 8270

Project ID: 874 WILLONGHBY
Client ID: SB-2 (10-12)

Phoenix I.D.: BF85151

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	560	ug/Kg	12/06/13	DD	SW 8270	
4-Nitrophenol	ND	1000	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthylene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Acetophenone	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Aniline	ND	1000	ug/Kg	12/06/13	DD	SW 8270	
Anthracene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Benz(a)anthracene	370	250	ug/Kg	12/06/13	DD	SW 8270	
Benzidine	ND	420	ug/Kg	12/06/13	DD	SW 8270	
Benzo(a)pyrene	380	250	ug/Kg	12/06/13	DD	SW 8270	
Benzo(b)fluoranthene	520	250	ug/Kg	12/06/13	DD	SW 8270	
Benzo(ghi)perylene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Benzoic acid	ND	1000	ug/Kg	12/06/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	350	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	12/06/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Carbazole	ND	530	ug/Kg	12/06/13	DD	SW 8270	
Chrysene	370	250	ug/Kg	12/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Dibenzofuran	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Diethyl phthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Dimethylphthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Di-n-butylphthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Di-n-octylphthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Fluoranthene	810	250	ug/Kg	12/06/13	DD	SW 8270	
Fluorene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobutadiene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Hexachloroethane	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Isophorone	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Naphthalene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Nitrobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	350	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	350	ug/Kg	12/06/13	DD	SW 8270	
Pentachloronitrobenzene	ND	350	ug/Kg	12/06/13	DD	SW 8270	
Pentachlorophenol	ND	350	ug/Kg	12/06/13	DD	SW 8270	
Phenanthrene	520	250	ug/Kg	12/06/13	DD	SW 8270	
Phenol	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Pyrene	680	250	ug/Kg	12/06/13	DD	SW 8270	
Pyridine	ND	350	ug/Kg	12/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	97		%	12/06/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	102		%	12/06/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY
Client ID: SB-2 (10-12)

Phoenix I.D.: BF85151

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	89		%	12/06/13	DD	30 - 130 %
% Nitrobenzene-d5	93		%	12/06/13	DD	30 - 130 %
% Phenol-d5	95		%	12/06/13	DD	30 - 130 %
% Terphenyl-d14	105		%	12/06/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	12:35
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85152

Project ID: 874 WILLONGHBY
Client ID: SB-3 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.40	0.40	mg/Kg	12/06/13	TH	SW6010	
Aluminum	7410	59	mg/Kg	12/06/13	TH	SW6010	
Arsenic	4.9	0.8	mg/Kg	12/06/13	TH	SW6010	
Barium	80.8	0.40	mg/Kg	12/07/13	LK	SW6010	
Beryllium	0.47	0.32	mg/Kg	12/06/13	TH	SW6010	
Calcium	57500	59	mg/Kg	12/07/13	LK	SW6010	
Cadmium	< 0.40	0.40	mg/Kg	12/06/13	TH	SW6010	
Cobalt	4.40	0.40	mg/Kg	12/06/13	TH	SW6010	
Chromium	23.5	0.40	mg/Kg	12/06/13	TH	SW6010	
Copper	26.8	0.40	mg/kg	12/06/13	TH	SW6010	
Iron	13700	59	mg/Kg	12/07/13	LK	SW6010	B
Mercury	0.24	0.08	mg/Kg	12/06/13	RS	SW-7471	
Potassium	1210	5.9	mg/Kg	12/07/13	LK	SW6010	
Magnesium	9400	59	mg/Kg	12/06/13	TH	SW6010	
Manganese	254	4.0	mg/Kg	12/07/13	LK	SW6010	B
Sodium	355	5.9	mg/Kg	12/07/13	LK	SW6010	
Nickel	15.0	0.40	mg/Kg	12/06/13	TH	SW6010	
Lead	76.9	0.40	mg/Kg	12/06/13	TH	SW6010	
Antimony	< 4.0	4.0	mg/Kg	12/07/13	LK	SW6010	
Selenium	< 1.6	1.6	mg/Kg	12/06/13	TH	SW6010	
Thallium	< 3.6	3.6	mg/Kg	12/06/13	TH	SW6010	
Vanadium	26.1	0.40	mg/Kg	12/06/13	TH	SW6010	
Zinc	90.9	0.40	mg/Kg	12/07/13	LK	SW6010	B
Percent Solid	89		%	12/05/13	I	E160.3	
Soil Extraction for PCB	Completed			12/05/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			12/05/13	BB	SW3545	
Soil Extraction for SVOA	Completed			12/05/13	JJ/FV	SW3545	
Mercury Digestion	Completed			12/06/13	I/I	SW7471	

Project ID: 874 WILLONGHBY
Client ID: SB-3 (0-2)

Phoenix I.D.: BF85152

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/05/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			12/04/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1221	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1232	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1242	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1248	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1254	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1260	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1262	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1268	ND	370	ug/Kg	12/06/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	96		%	12/06/13	AW	30 - 150 %	
% TCMX	104		%	12/06/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	36	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDE	ND	36	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDT	ND	36	ug/Kg	12/06/13	MH	SW8081	
a-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Alachlor	ND	18	ug/Kg	12/06/13	MH	SW8081	1
Aldrin	41	5.6	ug/Kg	12/06/13	MH	SW8081	
b-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Chlordane	ND	56	ug/Kg	12/06/13	MH	SW8081	
d-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Dieldrin	7.8	5.6	ug/Kg	12/06/13	MH	SW8081	
Endosulfan I	ND	18	ug/Kg	12/06/13	MH	SW8081	
Endosulfan II	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endosulfan sulfate	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endrin	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endrin aldehyde	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endrin ketone	ND	36	ug/Kg	12/06/13	MH	SW8081	
g-BHC	ND	5.6	ug/Kg	12/06/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	12/06/13	MH	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	12/06/13	MH	SW8081	
Methoxychlor	ND	180	ug/Kg	12/06/13	MH	SW8081	
Toxaphene	ND	180	ug/Kg	12/06/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	77		%	12/06/13	MH	30 - 150 %	
% TCMX	93		%	12/06/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,1,1-Trichloroethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	12/06/13	RM	SW8260	
1,1,2-Trichloroethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,1-Dichloroethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,1-Dichloroethene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-3 (0-2)

Phoenix I.D.: BF85152

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,2,3-Trichloropropane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,2-Dibromoethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,2-Dichlorobenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,2-Dichloroethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,2-Dichloropropane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,3-Dichlorobenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,3-Dichloropropane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
1,4-Dichlorobenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
2,2-Dichloropropane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
2-Chlorotoluene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
2-Hexanone	ND	28	ug/Kg	12/06/13	RM	SW8260	
2-Isopropyltoluene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	1
4-Chlorotoluene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	12/06/13	RM	SW8260	
Acetone	ND	34	ug/Kg	12/06/13	RM	SW8260	
Acrylonitrile	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Benzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Bromobenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Bromochloromethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Bromodichloromethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Bromoform	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Bromomethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Carbon Disulfide	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Carbon tetrachloride	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Chlorobenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Chloroethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Chloroform	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Chloromethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Dibromochloromethane	ND	3.4	ug/Kg	12/06/13	RM	SW8260	
Dibromomethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Dichlorodifluoromethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Ethylbenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Hexachlorobutadiene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Isopropylbenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
m&p-Xylene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Methyl Ethyl Ketone	ND	34	ug/Kg	12/06/13	RM	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	12/06/13	RM	SW8260	
Methylene chloride	ND	10	ug/Kg	12/06/13	RM	SW8260	
Naphthalene	6.6	5.6	ug/Kg	12/06/13	RM	SW8260	
n-Butylbenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
n-Propylbenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-3 (0-2)

Phoenix I.D.: BF85152

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
p-Isopropyltoluene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
sec-Butylbenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Styrene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
tert-Butylbenzene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Tetrachloroethene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	12/06/13	RM	SW8260	1
Toluene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Total Xylenes	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	12/06/13	RM	SW8260	
Trichloroethene	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Trichlorofluoromethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Trichlorotrifluoroethane	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
Vinyl chloride	ND	5.6	ug/Kg	12/06/13	RM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	12/06/13	RM	70 - 130 %	
% Bromofluorobenzene	86		%	12/06/13	RM	70 - 130 %	
% Dibromofluoromethane	75		%	12/06/13	RM	70 - 130 %	
% Toluene-d8	98		%	12/06/13	RM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
1,2-Dichlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	1800	ug/Kg	12/06/13	DD	SW 8270
1,3-Dichlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
1,4-Dichlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4-Dichlorophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4-Dimethylphenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrophenol	ND	2900	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrotoluene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,6-Dinitrotoluene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Chloronaphthalene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Chlorophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Methylnaphthalene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Nitroaniline	ND	2900	ug/Kg	12/06/13	DD	SW 8270
2-Nitrophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	1800	ug/Kg	12/06/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	12/06/13	DD	SW 8270
3-Nitroaniline	ND	2900	ug/Kg	12/06/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	5300	ug/Kg	12/06/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	1800	ug/Kg	12/06/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
4-Chloroaniline	ND	1300	ug/Kg	12/06/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	12/06/13	DD	SW 8270

Project ID: 874 WILLONGHBY
Client ID: SB-3 (0-2)

Phoenix I.D.: BF85152

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	2900	ug/Kg	12/06/13	DD	SW 8270	
4-Nitrophenol	ND	5300	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthylene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Acetophenone	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Aniline	ND	5300	ug/Kg	12/06/13	DD	SW 8270	
Anthracene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Benz(a)anthracene	1500	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzidine	ND	2200	ug/Kg	12/06/13	DD	SW 8270	
Benzo(a)pyrene	1300	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzo(b)fluoranthene	1600	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzo(ghi)perylene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzoic acid	ND	5300	ug/Kg	12/06/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	12/06/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Carbazole	ND	2700	ug/Kg	12/06/13	DD	SW 8270	
Chrysene	1500	1300	ug/Kg	12/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Dibenzofuran	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Diethyl phthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Dimethylphthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Di-n-butylphthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Di-n-octylphthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Fluoranthene	4300	1300	ug/Kg	12/06/13	DD	SW 8270	
Fluorene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobutadiene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Hexachloroethane	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Isophorone	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Naphthalene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Nitrobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
Pentachloronitrobenzene	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
Pentachlorophenol	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
Phenanthrene	3300	1300	ug/Kg	12/06/13	DD	SW 8270	
Phenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Pyrene	3900	1300	ug/Kg	12/06/13	DD	SW 8270	
Pyridine	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	26		%	12/06/13	DD	30 - 130 %	3
% 2-Fluorobiphenyl	112		%	12/06/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY
Client ID: SB-3 (0-2)

Phoenix I.D.: BF85152

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
% 2-Fluorophenol	67		%	12/06/13	DD	30 - 130 %	
% Nitrobenzene-d5	93		%	12/06/13	DD	30 - 130 %	
% Phenol-d5	86		%	12/06/13	DD	30 - 130 %	
% Terphenyl-d14	152		%	12/06/13	DD	30 - 130 %	3

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
1O = This parameter is not certified by NY NELAC for this matrix.
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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

* 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 for the semivolatile analysis.

* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No further action was necessary.

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
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	12:49
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85153

Project ID: 874 WILLONGHBY
Client ID: SB-3 (10-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.32	0.32	mg/Kg	12/06/13	TH	SW6010	
Aluminum	4430	48	mg/Kg	12/06/13	TH	SW6010	
Arsenic	2.3	0.6	mg/Kg	12/06/13	TH	SW6010	
Barium	30.4	0.32	mg/Kg	12/07/13	LK	SW6010	
Beryllium	0.37	0.25	mg/Kg	12/06/13	TH	SW6010	
Calcium	21300	48	mg/Kg	12/07/13	LK	SW6010	
Cadmium	< 0.32	0.32	mg/Kg	12/06/13	TH	SW6010	
Cobalt	3.48	0.32	mg/Kg	12/06/13	TH	SW6010	
Chromium	15.8	0.32	mg/Kg	12/06/13	TH	SW6010	
Copper	11.1	0.32	mg/kg	12/06/13	TH	SW6010	
Iron	16500	48	mg/Kg	12/07/13	LK	SW6010	B
Mercury	< 0.07	0.07	mg/Kg	12/06/13	RS	SW-7471	
Potassium	671	4.8	mg/Kg	12/07/13	LK	SW6010	
Magnesium	6980	48	mg/Kg	12/06/13	TH	SW6010	
Manganese	333	3.2	mg/Kg	12/07/13	LK	SW6010	B
Sodium	117	4.8	mg/Kg	12/07/13	LK	SW6010	
Nickel	8.19	0.32	mg/Kg	12/06/13	TH	SW6010	
Lead	12.8	0.32	mg/Kg	12/06/13	TH	SW6010	
Antimony	< 3.2	3.2	mg/Kg	12/07/13	LK	SW6010	
Selenium	< 1.3	1.3	mg/Kg	12/06/13	TH	SW6010	
Thallium	< 2.9	2.9	mg/Kg	12/06/13	TH	SW6010	
Vanadium	17.1	0.32	mg/Kg	12/06/13	TH	SW6010	
Zinc	27.9	0.32	mg/Kg	12/07/13	LK	SW6010	B
Percent Solid	96		%	12/05/13	I	E160.3	
Soil Extraction for PCB	Completed			12/05/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			12/05/13	BB	SW3545	
Soil Extraction for SVOA	Completed			12/05/13	JJ/FV	SW3545	
Mercury Digestion	Completed			12/06/13	I/I	SW7471	

Project ID: 874 WILLONGHBY
Client ID: SB-3 (10-12)

Phoenix I.D.: BF85153

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/05/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			12/04/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	340	ug/Kg	12/06/13	AW	SW 8082	
PCB-1221	ND	340	ug/Kg	12/06/13	AW	SW 8082	
PCB-1232	ND	340	ug/Kg	12/06/13	AW	SW 8082	
PCB-1242	ND	340	ug/Kg	12/06/13	AW	SW 8082	
PCB-1248	ND	340	ug/Kg	12/06/13	AW	SW 8082	
PCB-1254	ND	340	ug/Kg	12/06/13	AW	SW 8082	
PCB-1260	ND	340	ug/Kg	12/06/13	AW	SW 8082	
PCB-1262	ND	340	ug/Kg	12/06/13	AW	SW 8082	
PCB-1268	ND	340	ug/Kg	12/06/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	90		%	12/06/13	AW	30 - 150 %	
% TCMX	84		%	12/06/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	32	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDE	ND	32	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDT	ND	32	ug/Kg	12/06/13	MH	SW8081	
a-BHC	ND	16	ug/Kg	12/06/13	MH	SW8081	
Alachlor	ND	16	ug/Kg	12/06/13	MH	SW8081	1
Aldrin	ND	5.0	ug/Kg	12/06/13	MH	SW8081	
b-BHC	ND	16	ug/Kg	12/06/13	MH	SW8081	
Chlordane	ND	50	ug/Kg	12/06/13	MH	SW8081	
d-BHC	ND	16	ug/Kg	12/06/13	MH	SW8081	
Dieldrin	ND	5.0	ug/Kg	12/06/13	MH	SW8081	
Endosulfan I	ND	16	ug/Kg	12/06/13	MH	SW8081	
Endosulfan II	ND	32	ug/Kg	12/06/13	MH	SW8081	
Endosulfan sulfate	ND	32	ug/Kg	12/06/13	MH	SW8081	
Endrin	ND	32	ug/Kg	12/06/13	MH	SW8081	
Endrin aldehyde	ND	32	ug/Kg	12/06/13	MH	SW8081	
Endrin ketone	ND	32	ug/Kg	12/06/13	MH	SW8081	
g-BHC	ND	5.0	ug/Kg	12/06/13	MH	SW8081	
Heptachlor	ND	10	ug/Kg	12/06/13	MH	SW8081	
Heptachlor epoxide	ND	16	ug/Kg	12/06/13	MH	SW8081	
Methoxychlor	ND	160	ug/Kg	12/06/13	MH	SW8081	
Toxaphene	ND	160	ug/Kg	12/06/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	90		%	12/06/13	MH	30 - 150 %	
% TCMX	97		%	12/06/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,1,1-Trichloroethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	12/06/13	HM	SW8260	
1,1,2-Trichloroethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-3 (10-12)

Phoenix I.D.: BF85153

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichloropropane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromoethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichlorobenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloroethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloropropane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichlorobenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichloropropane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
1,4-Dichlorobenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
2,2-Dichloropropane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
2-Chlorotoluene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
2-Hexanone	ND	49	ug/Kg	12/06/13	HM	SW8260	
2-Isopropyltoluene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	1
4-Chlorotoluene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	49	ug/Kg	12/06/13	HM	SW8260	
Acetone	ND	59	ug/Kg	12/06/13	HM	SW8260	
Acrylonitrile	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Benzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Bromobenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Bromochloromethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Bromodichloromethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Bromoform	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Bromomethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Carbon Disulfide	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Chlorobenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Chloroethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Chloroform	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Chloromethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Dibromochloromethane	ND	5.9	ug/Kg	12/06/13	HM	SW8260	
Dibromomethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Ethylbenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Isopropylbenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
m&p-Xylene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Methyl Ethyl Ketone	ND	59	ug/Kg	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	20	ug/Kg	12/06/13	HM	SW8260	
Methylene chloride	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Naphthalene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
n-Butylbenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
n-Propylbenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-3 (10-12)

Phoenix I.D.: BF85153

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
sec-Butylbenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Styrene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Tetrachloroethene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	20	ug/Kg	12/06/13	HM	SW8260	1
Toluene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Total Xylenes	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	20	ug/Kg	12/06/13	HM	SW8260	
Trichloroethene	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
Vinyl chloride	ND	9.8	ug/Kg	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	12/06/13	HM	70 - 130 %	
% Bromofluorobenzene	92		%	12/06/13	HM	70 - 130 %	
% Dibromofluoromethane	101		%	12/06/13	HM	70 - 130 %	
% Toluene-d8	100		%	12/06/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	12/06/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	240	ug/Kg	12/06/13	DD	SW 8270
1,2-Dichlorobenzene	ND	240	ug/Kg	12/06/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	340	ug/Kg	12/06/13	DD	SW 8270
1,3-Dichlorobenzene	ND	240	ug/Kg	12/06/13	DD	SW 8270
1,4-Dichlorobenzene	ND	240	ug/Kg	12/06/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	240	ug/Kg	12/06/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	240	ug/Kg	12/06/13	DD	SW 8270
2,4-Dichlorophenol	ND	240	ug/Kg	12/06/13	DD	SW 8270
2,4-Dimethylphenol	ND	240	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrophenol	ND	550	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrotoluene	ND	240	ug/Kg	12/06/13	DD	SW 8270
2,6-Dinitrotoluene	ND	240	ug/Kg	12/06/13	DD	SW 8270
2-Chloronaphthalene	ND	240	ug/Kg	12/06/13	DD	SW 8270
2-Chlorophenol	ND	240	ug/Kg	12/06/13	DD	SW 8270
2-Methylnaphthalene	ND	240	ug/Kg	12/06/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	240	ug/Kg	12/06/13	DD	SW 8270
2-Nitroaniline	ND	550	ug/Kg	12/06/13	DD	SW 8270
2-Nitrophenol	ND	240	ug/Kg	12/06/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	12/06/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	240	ug/Kg	12/06/13	DD	SW 8270
3-Nitroaniline	ND	550	ug/Kg	12/06/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	990	ug/Kg	12/06/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	340	ug/Kg	12/06/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	240	ug/Kg	12/06/13	DD	SW 8270
4-Chloroaniline	ND	240	ug/Kg	12/06/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	12/06/13	DD	SW 8270

Project ID: 874 WILLONGHBY
Client ID: SB-3 (10-12)

Phoenix I.D.: BF85153

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	550	ug/Kg	12/06/13	DD	SW 8270	
4-Nitrophenol	ND	990	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthylene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Acetophenone	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Aniline	ND	990	ug/Kg	12/06/13	DD	SW 8270	
Anthracene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Benz(a)anthracene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Benzidine	ND	410	ug/Kg	12/06/13	DD	SW 8270	
Benzo(a)pyrene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Benzo(b)fluoranthene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Benzo(ghi)perylene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Benzoic acid	ND	990	ug/Kg	12/06/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	340	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	12/06/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Carbazole	ND	510	ug/Kg	12/06/13	DD	SW 8270	
Chrysene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Dibenzofuran	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Diethyl phthalate	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Dimethylphthalate	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Di-n-butylphthalate	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Di-n-octylphthalate	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Fluoranthene	340	240	ug/Kg	12/06/13	DD	SW 8270	
Fluorene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobenzene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobutadiene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Hexachloroethane	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Isophorone	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Naphthalene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Nitrobenzene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	340	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	340	ug/Kg	12/06/13	DD	SW 8270	
Pentachloronitrobenzene	ND	340	ug/Kg	12/06/13	DD	SW 8270	
Pentachlorophenol	ND	340	ug/Kg	12/06/13	DD	SW 8270	
Phenanthrene	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Phenol	ND	240	ug/Kg	12/06/13	DD	SW 8270	
Pyrene	290	240	ug/Kg	12/06/13	DD	SW 8270	
Pyridine	ND	340	ug/Kg	12/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	89		%	12/06/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	102		%	12/06/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY
Client ID: SB-3 (10-12)

Phoenix I.D.: BF85153

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	89		%	12/06/13	DD	30 - 130 %
% Nitrobenzene-d5	91		%	12/06/13	DD	30 - 130 %
% Phenol-d5	96		%	12/06/13	DD	30 - 130 %
% Terphenyl-d14	100		%	12/06/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	13:03
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85154

Project ID: 874 WILLONGHBY
Client ID: SB-4 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.40	0.40	mg/Kg	12/06/13	TH	SW6010	
Aluminum	6540	60	mg/Kg	12/06/13	TH	SW6010	
Arsenic	4.5	0.8	mg/Kg	12/06/13	TH	SW6010	
Barium	298	0.40	mg/Kg	12/07/13	LK	SW6010	
Beryllium	< 0.32	0.32	mg/Kg	12/06/13	TH	SW6010	
Calcium	32700	60	mg/Kg	12/07/13	LK	SW6010	
Cadmium	0.55	0.40	mg/Kg	12/06/13	TH	SW6010	
Cobalt	3.08	0.40	mg/Kg	12/06/13	TH	SW6010	
Chromium	16.6	0.40	mg/Kg	12/06/13	TH	SW6010	
Copper	29.4	0.40	mg/kg	12/06/13	TH	SW6010	
Iron	12000	60	mg/Kg	12/07/13	LK	SW6010	B
Mercury	0.80	0.09	mg/Kg	12/06/13	RS	SW-7471	
Potassium	894	6.0	mg/Kg	12/07/13	LK	SW6010	
Magnesium	3090	6.0	mg/Kg	12/06/13	TH	SW6010	
Manganese	259	4.0	mg/Kg	12/07/13	LK	SW6010	B
Sodium	567	6.0	mg/Kg	12/07/13	LK	SW6010	
Nickel	9.68	0.40	mg/Kg	12/06/13	TH	SW6010	
Lead	328	4.0	mg/Kg	12/06/13	TH	SW6010	
Antimony	< 4.0	4.0	mg/Kg	12/07/13	LK	SW6010	
Selenium	< 1.6	1.6	mg/Kg	12/06/13	TH	SW6010	
Thallium	< 3.6	3.6	mg/Kg	12/06/13	TH	SW6010	
Vanadium	21.6	0.40	mg/Kg	12/06/13	TH	SW6010	
Zinc	214	4.0	mg/Kg	12/07/13	LK	SW6010	B
Percent Solid	88		%	12/05/13	I	E160.3	
Soil Extraction for PCB	Completed			12/05/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			12/05/13	BB	SW3545	
Soil Extraction for SVOA	Completed			12/05/13	JJ/FV	SW3545	
Mercury Digestion	Completed			12/06/13	I/I	SW7471	

Project ID: 874 WILLONGHBY
Client ID: SB-4 (0-2)

Phoenix I.D.: BF85154

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/05/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			12/04/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1221	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1232	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1242	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1248	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1254	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1260	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1262	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1268	ND	370	ug/Kg	12/06/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	81		%	12/06/13	AW	30 - 150 %	
% TCMX	79		%	12/06/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	36	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDE	ND	36	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDT	ND	36	ug/Kg	12/06/13	MH	SW8081	
a-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Alachlor	ND	18	ug/Kg	12/06/13	MH	SW8081	1
Aldrin	ND	5.6	ug/Kg	12/06/13	MH	SW8081	
b-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Chlordane	ND	56	ug/Kg	12/06/13	MH	SW8081	
d-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Dieldrin	ND	5.6	ug/Kg	12/06/13	MH	SW8081	
Endosulfan I	ND	18	ug/Kg	12/06/13	MH	SW8081	
Endosulfan II	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endosulfan sulfate	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endrin	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endrin aldehyde	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endrin ketone	ND	36	ug/Kg	12/06/13	MH	SW8081	
g-BHC	ND	5.6	ug/Kg	12/06/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	12/06/13	MH	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	12/06/13	MH	SW8081	
Methoxychlor	ND	180	ug/Kg	12/06/13	MH	SW8081	
Toxaphene	ND	180	ug/Kg	12/06/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	73		%	12/06/13	MH	30 - 150 %	
% TCMX	83		%	12/06/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,1,1-Trichloroethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	7.2	ug/Kg	12/06/13	HM	SW8260	
1,1,2-Trichloroethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethene	ND	12	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-4 (0-2)

Phoenix I.D.: BF85154

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichloropropane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromoethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichlorobenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloroethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloropropane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichlorobenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichloropropane	ND	12	ug/Kg	12/06/13	HM	SW8260	
1,4-Dichlorobenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
2,2-Dichloropropane	ND	12	ug/Kg	12/06/13	HM	SW8260	
2-Chlorotoluene	ND	12	ug/Kg	12/06/13	HM	SW8260	
2-Hexanone	ND	60	ug/Kg	12/06/13	HM	SW8260	
2-Isopropyltoluene	ND	12	ug/Kg	12/06/13	HM	SW8260	1
4-Chlorotoluene	ND	12	ug/Kg	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	60	ug/Kg	12/06/13	HM	SW8260	
Acetone	ND	150	ug/Kg	12/06/13	HM	SW8260	
Acrylonitrile	ND	12	ug/Kg	12/06/13	HM	SW8260	
Benzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Bromobenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Bromochloromethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
Bromodichloromethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
Bromoform	ND	12	ug/Kg	12/06/13	HM	SW8260	
Bromomethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
Carbon Disulfide	ND	12	ug/Kg	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	12	ug/Kg	12/06/13	HM	SW8260	
Chlorobenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Chloroethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
Chloroform	ND	12	ug/Kg	12/06/13	HM	SW8260	
Chloromethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	12	ug/Kg	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Dibromochloromethane	ND	7.2	ug/Kg	12/06/13	HM	SW8260	
Dibromomethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
Ethylbenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Isopropylbenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
m&p-Xylene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Methyl Ethyl Ketone	ND	72	ug/Kg	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	24	ug/Kg	12/06/13	HM	SW8260	
Methylene chloride	ND	12	ug/Kg	12/06/13	HM	SW8260	
Naphthalene	ND	12	ug/Kg	12/06/13	HM	SW8260	
n-Butylbenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
n-Propylbenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-4 (0-2)

Phoenix I.D.: BF85154

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	12	ug/Kg	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	12	ug/Kg	12/06/13	HM	SW8260	
sec-Butylbenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Styrene	ND	12	ug/Kg	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Tetrachloroethene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	24	ug/Kg	12/06/13	HM	SW8260	1
Toluene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Total Xylenes	ND	12	ug/Kg	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	12	ug/Kg	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	12	ug/Kg	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	24	ug/Kg	12/06/13	HM	SW8260	
Trichloroethene	ND	12	ug/Kg	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	12	ug/Kg	12/06/13	HM	SW8260	
Vinyl chloride	ND	12	ug/Kg	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	12/06/13	HM	70 - 130 %	
% Bromofluorobenzene	85		%	12/06/13	HM	70 - 130 %	
% Dibromofluoromethane	84		%	12/06/13	HM	70 - 130 %	
% Toluene-d8	98		%	12/06/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	12/06/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Nitroaniline	ND	600	ug/Kg	12/06/13	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	12/06/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	12/06/13	DD	SW 8270
3-Nitroaniline	ND	600	ug/Kg	12/06/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	12/06/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	12/06/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	12/06/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	12/06/13	DD	SW 8270

Project ID: 874 WILLONGHBY
Client ID: SB-4 (0-2)

Phoenix I.D.: BF85154

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	600	ug/Kg	12/06/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	12/06/13	DD	SW 8270	
Anthracene	430	260	ug/Kg	12/06/13	DD	SW 8270	
Benz(a)anthracene	1400	260	ug/Kg	12/06/13	DD	SW 8270	
Benzidine	ND	450	ug/Kg	12/06/13	DD	SW 8270	
Benzo(a)pyrene	1300	260	ug/Kg	12/06/13	DD	SW 8270	
Benzo(b)fluoranthene	1600	260	ug/Kg	12/06/13	DD	SW 8270	
Benzo(ghi)perylene	610	260	ug/Kg	12/06/13	DD	SW 8270	
Benzo(k)fluoranthene	590	260	ug/Kg	12/06/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	12/06/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	12/06/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Carbazole	ND	560	ug/Kg	12/06/13	DD	SW 8270	
Chrysene	1300	260	ug/Kg	12/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Fluoranthene	2600	260	ug/Kg	12/06/13	DD	SW 8270	
Fluorene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	560	260	ug/Kg	12/06/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Pentachlorophenol	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Phenanthrene	2100	260	ug/Kg	12/06/13	DD	SW 8270	
Phenol	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Pyrene	2400	260	ug/Kg	12/06/13	DD	SW 8270	
Pyridine	ND	370	ug/Kg	12/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	81		%	12/06/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	94		%	12/06/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY
Client ID: SB-4 (0-2)

Phoenix I.D.: BF85154

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	83		%	12/06/13	DD	30 - 130 %
% Nitrobenzene-d5	83		%	12/06/13	DD	30 - 130 %
% Phenol-d5	88		%	12/06/13	DD	30 - 130 %
% Terphenyl-d14	93		%	12/06/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	13:12
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85155

Project ID: 874 WILLONGHBY
Client ID: SB-4 (10-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.38	0.38	mg/Kg	12/06/13	TH	SW6010	
Aluminum	5870	57	mg/Kg	12/06/13	TH	SW6010	
Arsenic	5.1	0.8	mg/Kg	12/06/13	TH	SW6010	
Barium	121	0.38	mg/Kg	12/07/13	LK	SW6010	
Beryllium	0.48	0.30	mg/Kg	12/06/13	TH	SW6010	
Calcium	8690	5.7	mg/Kg	12/07/13	LK	SW6010	
Cadmium	0.65	0.38	mg/Kg	12/06/13	TH	SW6010	
Cobalt	9.29	0.38	mg/Kg	12/06/13	TH	SW6010	
Chromium	18.4	0.38	mg/Kg	12/06/13	TH	SW6010	
Copper	39.9	0.38	mg/kg	12/06/13	TH	SW6010	
Iron	34000	57	mg/Kg	12/07/13	LK	SW6010	B
Mercury	< 0.09	0.09	mg/Kg	12/06/13	RS	SW-7471	
Potassium	933	5.7	mg/Kg	12/07/13	LK	SW6010	
Magnesium	2800	5.7	mg/Kg	12/06/13	TH	SW6010	
Manganese	1350	3.8	mg/Kg	12/07/13	LK	SW6010	B
Sodium	113	5.7	mg/Kg	12/07/13	LK	SW6010	
Nickel	23.1	0.38	mg/Kg	12/06/13	TH	SW6010	
Lead	38.6	0.38	mg/Kg	12/06/13	TH	SW6010	
Antimony	< 3.8	3.8	mg/Kg	12/07/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	12/06/13	TH	SW6010	
Thallium	< 3.4	3.4	mg/Kg	12/06/13	TH	SW6010	
Vanadium	32.6	0.38	mg/Kg	12/06/13	TH	SW6010	
Zinc	87.1	0.38	mg/Kg	12/07/13	LK	SW6010	B
Percent Solid	85		%	12/05/13	I	E160.3	
Soil Extraction for PCB	Completed			12/05/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			12/05/13	BB	SW3545	
Soil Extraction for SVOA	Completed			12/05/13	JJ/FV	SW3545	
Mercury Digestion	Completed			12/06/13	I/I	SW7471	

Project ID: 874 WILLONGHBY
Client ID: SB-4 (10-12)

Phoenix I.D.: BF85155

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/05/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			12/04/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	390	ug/Kg	12/06/13	AW	SW 8082	
PCB-1221	ND	390	ug/Kg	12/06/13	AW	SW 8082	
PCB-1232	ND	390	ug/Kg	12/06/13	AW	SW 8082	
PCB-1242	ND	390	ug/Kg	12/06/13	AW	SW 8082	
PCB-1248	ND	390	ug/Kg	12/06/13	AW	SW 8082	
PCB-1254	ND	390	ug/Kg	12/06/13	AW	SW 8082	
PCB-1260	ND	390	ug/Kg	12/06/13	AW	SW 8082	
PCB-1262	ND	390	ug/Kg	12/06/13	AW	SW 8082	
PCB-1268	ND	390	ug/Kg	12/06/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	125		%	12/06/13	AW	30 - 150 %	
% TCMX	88		%	12/06/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	37	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDE	ND	37	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDT	ND	37	ug/Kg	12/06/13	MH	SW8081	
a-BHC	ND	19	ug/Kg	12/06/13	MH	SW8081	
Alachlor	ND	19	ug/Kg	12/06/13	MH	SW8081	1
Aldrin	ND	5.8	ug/Kg	12/06/13	MH	SW8081	
b-BHC	ND	19	ug/Kg	12/06/13	MH	SW8081	
Chlordane	160	58	ug/Kg	12/06/13	MH	SW8081	
d-BHC	ND	19	ug/Kg	12/06/13	MH	SW8081	
Dieldrin	ND	5.8	ug/Kg	12/06/13	MH	SW8081	
Endosulfan I	ND	19	ug/Kg	12/06/13	MH	SW8081	
Endosulfan II	ND	37	ug/Kg	12/06/13	MH	SW8081	
Endosulfan sulfate	ND	37	ug/Kg	12/06/13	MH	SW8081	
Endrin	ND	37	ug/Kg	12/06/13	MH	SW8081	
Endrin aldehyde	ND	37	ug/Kg	12/06/13	MH	SW8081	
Endrin ketone	ND	37	ug/Kg	12/06/13	MH	SW8081	
g-BHC	ND	5.8	ug/Kg	12/06/13	MH	SW8081	
Heptachlor	ND	12	ug/Kg	12/06/13	MH	SW8081	
Heptachlor epoxide	ND	19	ug/Kg	12/06/13	MH	SW8081	
Methoxychlor	ND	190	ug/Kg	12/06/13	MH	SW8081	
Toxaphene	ND	190	ug/Kg	12/06/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	92		%	12/06/13	MH	30 - 150 %	
% TCMX	97		%	12/06/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,1,1-Trichloroethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	4.4	ug/Kg	12/06/13	HM	SW8260	
1,1,2-Trichloroethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-4 (10-12)

Phoenix I.D.: BF85155

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichloropropane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromoethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichlorobenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloroethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloropropane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichlorobenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichloropropane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
1,4-Dichlorobenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
2,2-Dichloropropane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
2-Chlorotoluene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
2-Hexanone	ND	36	ug/Kg	12/06/13	HM	SW8260	
2-Isopropyltoluene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	1
4-Chlorotoluene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	36	ug/Kg	12/06/13	HM	SW8260	
Acetone	ND	44	ug/Kg	12/06/13	HM	SW8260	
Acrylonitrile	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Benzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Bromobenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Bromochloromethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Bromodichloromethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Bromoform	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Bromomethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Carbon Disulfide	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Chlorobenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Chloroethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Chloroform	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Chloromethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Dibromochloromethane	ND	4.4	ug/Kg	12/06/13	HM	SW8260	
Dibromomethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Ethylbenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Isopropylbenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
m&p-Xylene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Methyl Ethyl Ketone	ND	44	ug/Kg	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	12/06/13	HM	SW8260	
Methylene chloride	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Naphthalene	410	300	ug/Kg	12/09/13	HM	SW8260	
n-Butylbenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
n-Propylbenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-4 (10-12)

Phoenix I.D.: BF85155

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
sec-Butylbenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Styrene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Tetrachloroethene	9.1	7.3	ug/Kg	12/06/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	15	ug/Kg	12/06/13	HM	SW8260	1
Toluene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Total Xylenes	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	12/06/13	HM	SW8260	
Trichloroethene	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
Vinyl chloride	ND	7.3	ug/Kg	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	112		%	12/06/13	HM	70 - 130 %	
% Bromofluorobenzene	95		%	12/06/13	HM	70 - 130 %	
% Dibromofluoromethane	109		%	12/06/13	HM	70 - 130 %	
% Toluene-d8	97		%	12/06/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	12/06/13	DD	SW 8270
1,2,4-Trichlorobenzene	330	270	ug/Kg	12/06/13	DD	SW 8270
1,2-Dichlorobenzene	ND	270	ug/Kg	12/06/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	390	ug/Kg	12/06/13	DD	SW 8270
1,3-Dichlorobenzene	ND	270	ug/Kg	12/06/13	DD	SW 8270
1,4-Dichlorobenzene	ND	270	ug/Kg	12/06/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	270	ug/Kg	12/06/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	270	ug/Kg	12/06/13	DD	SW 8270
2,4-Dichlorophenol	ND	270	ug/Kg	12/06/13	DD	SW 8270
2,4-Dimethylphenol	ND	270	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrophenol	ND	620	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrotoluene	ND	270	ug/Kg	12/06/13	DD	SW 8270
2,6-Dinitrotoluene	ND	270	ug/Kg	12/06/13	DD	SW 8270
2-Chloronaphthalene	ND	270	ug/Kg	12/06/13	DD	SW 8270
2-Chlorophenol	ND	270	ug/Kg	12/06/13	DD	SW 8270
2-Methylnaphthalene	610	270	ug/Kg	12/06/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	270	ug/Kg	12/06/13	DD	SW 8270
2-Nitroaniline	ND	620	ug/Kg	12/06/13	DD	SW 8270
2-Nitrophenol	ND	270	ug/Kg	12/06/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	12/06/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	270	ug/Kg	12/06/13	DD	SW 8270
3-Nitroaniline	ND	620	ug/Kg	12/06/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	12/06/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	390	ug/Kg	12/06/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	270	ug/Kg	12/06/13	DD	SW 8270
4-Chloroaniline	ND	270	ug/Kg	12/06/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	12/06/13	DD	SW 8270

Project ID: 874 WILLONGHBY
Client ID: SB-4 (10-12)

Phoenix I.D.: BF85155

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	620	ug/Kg	12/06/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthene	1700	270	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthylene	1100	270	ug/Kg	12/06/13	DD	SW 8270	
Acetophenone	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	12/06/13	DD	SW 8270	
Anthracene	2400	270	ug/Kg	12/06/13	DD	SW 8270	
Benz(a)anthracene	5600	270	ug/Kg	12/06/13	DD	SW 8270	
Benzidine	ND	470	ug/Kg	12/06/13	DD	SW 8270	
Benzo(a)pyrene	5500	270	ug/Kg	12/06/13	DD	SW 8270	
Benzo(b)fluoranthene	6900	270	ug/Kg	12/06/13	DD	SW 8270	
Benzo(ghi)perylene	1900	270	ug/Kg	12/06/13	DD	SW 8270	
Benzo(k)fluoranthene	3000	270	ug/Kg	12/06/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	12/06/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	390	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	12/06/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	320	270	ug/Kg	12/06/13	DD	SW 8270	
Carbazole	1200	590	ug/Kg	12/06/13	DD	SW 8270	
Chrysene	5900	270	ug/Kg	12/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	650	270	ug/Kg	12/06/13	DD	SW 8270	
Dibenzofuran	1600	270	ug/Kg	12/06/13	DD	SW 8270	
Diethyl phthalate	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Dimethylphthalate	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Di-n-butylphthalate	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Di-n-octylphthalate	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Fluoranthene	17000	270	ug/Kg	12/06/13	DD	SW 8270	
Fluorene	3400	270	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobenzene	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobutadiene	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Hexachloroethane	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	2000	270	ug/Kg	12/06/13	DD	SW 8270	
Isophorone	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Naphthalene	1400	270	ug/Kg	12/06/13	DD	SW 8270	
Nitrobenzene	ND	270	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	390	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	390	ug/Kg	12/06/13	DD	SW 8270	
Pentachloronitrobenzene	ND	390	ug/Kg	12/06/13	DD	SW 8270	
Pentachlorophenol	ND	390	ug/Kg	12/06/13	DD	SW 8270	
Phenanthrene	10000	270	ug/Kg	12/06/13	DD	SW 8270	
Phenol	ND	270	ug/Kg	12/06/13	DD	SW 8270	
Pyrene	15000	270	ug/Kg	12/06/13	DD	SW 8270	
Pyridine	ND	390	ug/Kg	12/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	115		%	12/06/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	101		%	12/06/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY
Client ID: SB-4 (10-12)

Phoenix I.D.: BF85155

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	90		%	12/06/13	DD	30 - 130 %
% Nitrobenzene-d5	89		%	12/06/13	DD	30 - 130 %
% Phenol-d5	95		%	12/06/13	DD	30 - 130 %
% Terphenyl-d14	102		%	12/06/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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.
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Phyllis Shiller, Laboratory Director
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	13:53
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85156

Project ID: 874 WILLONGHBY
Client ID: SB-2 (10-12) DUPLICATE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.34	0.34	mg/Kg	12/06/13	TH	SW6010	
Aluminum	4380	52	mg/Kg	12/06/13	TH	SW6010	
Arsenic	3.0	0.7	mg/Kg	12/06/13	TH	SW6010	
Barium	39.7	0.34	mg/Kg	12/07/13	LK	SW6010	
Beryllium	< 0.28	0.28	mg/Kg	12/06/13	TH	SW6010	
Calcium	3980	5.2	mg/Kg	12/07/13	LK	SW6010	
Cadmium	0.36	0.34	mg/Kg	12/06/13	TH	SW6010	
Cobalt	3.99	0.34	mg/Kg	12/06/13	TH	SW6010	
Chromium	12.9	0.34	mg/Kg	12/06/13	TH	SW6010	
Copper	16.4	0.34	mg/kg	12/06/13	TH	SW6010	
Iron	21900	52	mg/Kg	12/07/13	LK	SW6010	B
Mercury	< 0.06	0.06	mg/Kg	12/06/13	RS	SW-7471	
Potassium	629	5.2	mg/Kg	12/07/13	LK	SW6010	
Magnesium	1660	5.2	mg/Kg	12/06/13	TH	SW6010	
Manganese	387	3.4	mg/Kg	12/07/13	LK	SW6010	B
Sodium	137	5.2	mg/Kg	12/07/13	LK	SW6010	
Nickel	9.99	0.34	mg/Kg	12/06/13	TH	SW6010	
Lead	23.9	0.34	mg/Kg	12/06/13	TH	SW6010	
Antimony	< 3.4	3.4	mg/Kg	12/07/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	12/06/13	TH	SW6010	
Thallium	< 3.1	3.1	mg/Kg	12/06/13	TH	SW6010	
Vanadium	16.2	0.34	mg/Kg	12/06/13	TH	SW6010	
Zinc	69.6	0.34	mg/Kg	12/07/13	LK	SW6010	B
Percent Solid	92		%	12/05/13	I	E160.3	
Soil Extraction for PCB	Completed			12/05/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			12/05/13	BB	SW3545	
Soil Extraction for SVOA	Completed			12/05/13	JJ/FV	SW3545	
Mercury Digestion	Completed			12/06/13	I/I	SW7471	

Project ID: 874 WILLONGHBY
Client ID: SB-2 (10-12) DUPLICATE

Phoenix I.D.: BF85156

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/05/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			12/04/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	12/06/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	79		%	12/06/13	AW	30 - 150 %	
% TCMX	74		%	12/06/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	12/06/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	12/06/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	12/06/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	12/06/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	12/06/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	12/06/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	12/06/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	12/06/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	12/06/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endrin	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	12/06/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	12/06/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	12/06/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	12/06/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	12/06/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	12/06/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	78		%	12/06/13	MH	30 - 150 %	
% TCMX	88		%	12/06/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,1,1-Trichloroethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	8.4	ug/Kg	12/06/13	HM	SW8260	
1,1,2-Trichloroethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethene	ND	14	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-2 (10-12) DUPLICATE

Phoenix I.D.: BF85156

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichloropropane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromoethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichlorobenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloroethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloropropane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichlorobenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichloropropane	ND	14	ug/Kg	12/06/13	HM	SW8260	
1,4-Dichlorobenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
2,2-Dichloropropane	ND	14	ug/Kg	12/06/13	HM	SW8260	
2-Chlorotoluene	ND	14	ug/Kg	12/06/13	HM	SW8260	
2-Hexanone	ND	70	ug/Kg	12/06/13	HM	SW8260	
2-Isopropyltoluene	ND	14	ug/Kg	12/06/13	HM	SW8260	1
4-Chlorotoluene	ND	14	ug/Kg	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	70	ug/Kg	12/06/13	HM	SW8260	
Acetone	ND	150	ug/Kg	12/06/13	HM	SW8260	
Acrylonitrile	ND	14	ug/Kg	12/06/13	HM	SW8260	
Benzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Bromobenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Bromochloromethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
Bromodichloromethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
Bromoform	ND	14	ug/Kg	12/06/13	HM	SW8260	
Bromomethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
Carbon Disulfide	ND	14	ug/Kg	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	14	ug/Kg	12/06/13	HM	SW8260	
Chlorobenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Chloroethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
Chloroform	ND	14	ug/Kg	12/06/13	HM	SW8260	
Chloromethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	14	ug/Kg	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Dibromochloromethane	ND	8.4	ug/Kg	12/06/13	HM	SW8260	
Dibromomethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
Ethylbenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Isopropylbenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
m&p-Xylene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Methyl Ethyl Ketone	ND	84	ug/Kg	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	28	ug/Kg	12/06/13	HM	SW8260	
Methylene chloride	ND	14	ug/Kg	12/06/13	HM	SW8260	
Naphthalene	ND	14	ug/Kg	12/06/13	HM	SW8260	
n-Butylbenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
n-Propylbenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	14	ug/Kg	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	14	ug/Kg	12/06/13	HM	SW8260	
sec-Butylbenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Styrene	ND	14	ug/Kg	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Tetrachloroethene	2300	260	ug/Kg	12/07/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	28	ug/Kg	12/06/13	HM	SW8260	1
Toluene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Total Xylenes	ND	14	ug/Kg	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	14	ug/Kg	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	14	ug/Kg	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	28	ug/Kg	12/06/13	HM	SW8260	
Trichloroethene	ND	14	ug/Kg	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	14	ug/Kg	12/06/13	HM	SW8260	
Vinyl chloride	ND	14	ug/Kg	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	12/06/13	HM	70 - 130 %	
% Bromofluorobenzene	93		%	12/06/13	HM	70 - 130 %	
% Dibromofluoromethane	85		%	12/06/13	HM	70 - 130 %	
% Toluene-d8	97		%	12/06/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
1,2-Dichlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	350	ug/Kg	12/06/13	DD	SW 8270
1,3-Dichlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
1,4-Dichlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4-Dichlorophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4-Dimethylphenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrophenol	ND	570	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrotoluene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2,6-Dinitrotoluene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Chloronaphthalene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Chlorophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Methylnaphthalene	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	250	ug/Kg	12/06/13	DD	SW 8270
2-Nitroaniline	ND	570	ug/Kg	12/06/13	DD	SW 8270
2-Nitrophenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	12/06/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	250	ug/Kg	12/06/13	DD	SW 8270
3-Nitroaniline	ND	570	ug/Kg	12/06/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	12/06/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	350	ug/Kg	12/06/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	250	ug/Kg	12/06/13	DD	SW 8270
4-Chloroaniline	ND	250	ug/Kg	12/06/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	12/06/13	DD	SW 8270

Project ID: 874 WILLONGHBY
Client ID: SB-2 (10-12) DUPLICATE

Phoenix I.D.: BF85156

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	570	ug/Kg	12/06/13	DD	SW 8270	
4-Nitrophenol	ND	1000	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthene	400	250	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthylene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Acetophenone	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Aniline	ND	1000	ug/Kg	12/06/13	DD	SW 8270	
Anthracene	1100	250	ug/Kg	12/06/13	DD	SW 8270	
Benz(a)anthracene	2500	250	ug/Kg	12/06/13	DD	SW 8270	
Benzidine	ND	420	ug/Kg	12/06/13	DD	SW 8270	
Benzo(a)pyrene	2500	250	ug/Kg	12/06/13	DD	SW 8270	
Benzo(b)fluoranthene	3500	250	ug/Kg	12/06/13	DD	SW 8270	
Benzo(ghi)perylene	1000	250	ug/Kg	12/06/13	DD	SW 8270	
Benzo(k)fluoranthene	1200	250	ug/Kg	12/06/13	DD	SW 8270	
Benzoic acid	ND	1000	ug/Kg	12/06/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	350	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	12/06/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	270	250	ug/Kg	12/06/13	DD	SW 8270	
Carbazole	620	530	ug/Kg	12/06/13	DD	SW 8270	
Chrysene	2500	250	ug/Kg	12/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	320	250	ug/Kg	12/06/13	DD	SW 8270	
Dibenzofuran	320	250	ug/Kg	12/06/13	DD	SW 8270	
Diethyl phthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Dimethylphthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Di-n-butylphthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Di-n-octylphthalate	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Fluoranthene	4800	250	ug/Kg	12/06/13	DD	SW 8270	
Fluorene	530	250	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobutadiene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Hexachloroethane	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	1000	250	ug/Kg	12/06/13	DD	SW 8270	
Isophorone	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Naphthalene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Nitrobenzene	ND	250	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	350	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	350	ug/Kg	12/06/13	DD	SW 8270	
Pentachloronitrobenzene	ND	350	ug/Kg	12/06/13	DD	SW 8270	
Pentachlorophenol	ND	350	ug/Kg	12/06/13	DD	SW 8270	
Phenanthrene	4600	250	ug/Kg	12/06/13	DD	SW 8270	
Phenol	ND	250	ug/Kg	12/06/13	DD	SW 8270	
Pyrene	4000	250	ug/Kg	12/06/13	DD	SW 8270	
Pyridine	ND	350	ug/Kg	12/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	102		%	12/06/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	98		%	12/06/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY

Client ID: SB-2 (10-12) DUPLICATE

Phoenix I.D.: BF85156

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	95		%	12/06/13	DD	30 - 130 %
% Nitrobenzene-d5	92		%	12/06/13	DD	30 - 130 %
% Phenol-d5	97		%	12/06/13	DD	30 - 130 %
% Terphenyl-d14	97		%	12/06/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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.
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Phyllis Shiller, Laboratory Director

December 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		12/04/13	15:50
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85157

Project ID: 874 WILLONGHBY
Client ID: SB-2 MW-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	12/07/13	LK	SW6010
Aluminum	60.5	0.10	mg/L	12/10/13	LK	SW6010
Arsenic	0.015	0.004	mg/L	12/07/13	LK	SW6010
Barium	0.712	0.002	mg/L	12/07/13	LK	SW6010
Beryllium	0.003	0.001	mg/L	12/07/13	LK	SW6010
Calcium	63.5	0.10	mg/L	12/10/13	LK	SW6010
Cadmium	0.003	0.001	mg/L	12/07/13	LK	SW6010
Cobalt	0.129	0.002	mg/L	12/07/13	LK	SW6010
Chromium	0.250	0.001	mg/L	12/07/13	LK	SW6010
Copper	0.248	0.005	mg/L	12/07/13	LK	SW6010
Iron	225	0.10	mg/L	12/10/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	12/06/13	RS	SW7470
Potassium	16.7	0.1	mg/L	12/07/13	LK	SW6010
Magnesium	36.4	0.01	mg/L	12/07/13	LK	SW6010
Manganese	11.7	0.010	mg/L	12/10/13	LK	SW6010
Sodium	34.1	0.1	mg/L	12/07/13	LK	SW6010
Nickel	0.189	0.001	mg/L	12/07/13	LK	SW6010
Lead	0.085	0.002	mg/L	12/07/13	LK	SW6010
Antimony	0.009	0.005	mg/L	12/07/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	12/07/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	12/10/13	RS	SM3113B/SW70
Vanadium	0.183	0.002	mg/L	12/07/13	LK	SW6010
Zinc	0.288	0.002	mg/L	12/07/13	LK	SW6010
Mercury Digestion	Completed			12/06/13	I/I	SW7470
PCB Extraction	Completed			12/06/13	L	SW3510C
Extraction for Pest (2 Liter)	Completed			12/06/13	L	SW3510
Semi-Volatile Extraction	Completed			12/05/13	E/K/D	SW3520
Total Metals Digestion	Completed			12/05/13	AG	SW846 - 3050

Project ID: 874 WILLONGHBY
Client ID: SB-2 MW-2

Phoenix I.D.: BF85157

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Polychlorinated Biphenyls							
PCB-1016	ND	0.10	ug/L	12/07/13	AW	8082	
PCB-1221	ND	0.10	ug/L	12/07/13	AW	8082	
PCB-1232	ND	0.10	ug/L	12/07/13	AW	8082	
PCB-1242	ND	0.10	ug/L	12/07/13	AW	8082	
PCB-1248	ND	0.10	ug/L	12/07/13	AW	8082	
PCB-1254	ND	0.10	ug/L	12/07/13	AW	8082	
PCB-1260	ND	0.10	ug/L	12/07/13	AW	8082	
PCB-1262	ND	0.10	ug/L	12/07/13	AW	8082	
PCB-1268	ND	0.10	ug/L	12/07/13	AW	8082	
QA/QC Surrogates							
% DCBP	20*		%	12/07/13	AW	30 - 150 %	
% TCMX	70		%	12/07/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	0.050	ug/L	12/07/13	MH	SW8081	
4,4' -DDE	ND	0.050	ug/L	12/07/13	MH	SW8081	
4,4' -DDT	ND	0.050	ug/L	12/07/13	MH	SW8081	
a-BHC	ND	0.025	ug/L	12/07/13	MH	SW8081	
Alachlor	ND	0.075	ug/L	12/07/13	MH	SW8081	1
Aldrin	ND	0.002	ug/L	12/07/13	MH	SW8081	
b-BHC	ND	0.005	ug/L	12/07/13	MH	SW8081	
Chlordane	ND	0.30	ug/L	12/07/13	MH	SW8081	
d-BHC	ND	0.025	ug/L	12/07/13	MH	SW8081	
Dieldrin	ND	0.002	ug/L	12/07/13	MH	SW8081	
Endosulfan I	ND	0.050	ug/L	12/07/13	MH	SW8081	
Endosulfan II	ND	0.050	ug/L	12/07/13	MH	SW8081	
Endosulfan Sulfate	ND	0.050	ug/L	12/07/13	MH	SW8081	
Endrin	ND	0.050	ug/L	12/07/13	MH	SW8081	
Endrin Aldehyde	ND	0.050	ug/L	12/07/13	MH	SW8081	
Endrin ketone	ND	0.050	ug/L	12/07/13	MH	SW8081	
g-BHC (Lindane)	ND	0.025	ug/L	12/07/13	MH	SW8081	
Heptachlor	ND	0.025	ug/L	12/07/13	MH	SW8081	
Heptachlor epoxide	ND	0.025	ug/L	12/07/13	MH	SW8081	
Methoxychlor	ND	0.10	ug/L	12/07/13	MH	SW8081	
Toxaphene	ND	1.0	ug/L	12/07/13	MH	SW8081	
QA/QC Surrogates							
%DCBP (Surrogate Rec)	22*		%	12/07/13	MH	30 - 150 %	
%TCMX (Surrogate Rec)	61		%	12/07/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	12/06/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-2 MW-2

Phoenix I.D.: BF85157

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	12/06/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	12/06/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	12/06/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	12/06/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	12/06/13	HM	SW8260	
Acetone	ND	25	ug/L	12/06/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	12/06/13	HM	SW8260	
Benzene	ND	0.70	ug/L	12/06/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	12/06/13	HM	SW8260	
Bromoform	ND	1.0	ug/L	12/06/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	12/06/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Chloroform	5.7	1.0	ug/L	12/06/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	1.5	1.0	ug/L	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	12/06/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	12/06/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	12/06/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	12/06/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	12/06/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	12/06/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-2 MW-2

Phoenix I.D.: BF85157

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Styrene	ND	1.0	ug/L	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Tetrachloroethene	30	1.0	ug/L	12/06/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	12/06/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Total Xylenes	ND	2.0	ug/L	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	12/06/13	HM	SW8260	
Trichloroethene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	12/06/13	HM	70 - 130 %	
% Bromofluorobenzene	97		%	12/06/13	HM	70 - 130 %	
% Dibromofluoromethane	104		%	12/06/13	HM	70 - 130 %	
% Toluene-d8	101		%	12/06/13	HM	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0	ug/L	12/08/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	12/08/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	12/08/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	12/08/13	DD	SW8270
1,4-Dichlorobenzene	ND	5.0	ug/L	12/08/13	DD	SW8270
2,4,5-Trichlorophenol	ND	10	ug/L	12/08/13	DD	SW8270
2,4,6-Trichlorophenol	ND	10	ug/L	12/08/13	DD	SW8270
2,4-Dichlorophenol	ND	10	ug/L	12/08/13	DD	SW8270
2,4-Dimethylphenol	ND	10	ug/L	12/08/13	DD	SW8270
2,4-Dinitrophenol	ND	50	ug/L	12/08/13	DD	SW8270
2,4-Dinitrotoluene	ND	5.0	ug/L	12/08/13	DD	SW8270
2,6-Dinitrotoluene	ND	5.0	ug/L	12/08/13	DD	SW8270
2-Chloronaphthalene	ND	5.0	ug/L	12/08/13	DD	SW8270
2-Chlorophenol	ND	10	ug/L	12/08/13	DD	SW8270
2-Methylnaphthalene	ND	5.0	ug/L	12/08/13	DD	SW8270
2-Methylphenol (o-cresol)	ND	10	ug/L	12/08/13	DD	SW8270
2-Nitroaniline	ND	50	ug/L	12/08/13	DD	SW8270
2-Nitrophenol	ND	10	ug/L	12/08/13	DD	SW8270
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	12/08/13	DD	SW8270
3,3'-Dichlorobenzidine	ND	50	ug/L	12/08/13	DD	SW8270
3-Nitroaniline	ND	50	ug/L	12/08/13	DD	SW8270
4,6-Dinitro-2-methylphenol	ND	50	ug/L	12/08/13	DD	SW8270
4-Bromophenyl phenyl ether	ND	5.0	ug/L	12/08/13	DD	SW8270
4-Chloro-3-methylphenol	ND	20	ug/L	12/08/13	DD	SW8270
4-Chloroaniline	ND	20	ug/L	12/08/13	DD	SW8270
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	12/08/13	DD	SW8270
4-Nitroaniline	ND	20	ug/L	12/08/13	DD	SW8270
4-Nitrophenol	ND	50	ug/L	12/08/13	DD	SW8270
Acetophenone	ND	5.0	ug/L	12/08/13	DD	SW8270

Project ID: 874 WILLONGHBY
Client ID: SB-2 MW-2

Phoenix I.D.: BF85157

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Aniline	ND	10	ug/L	12/08/13	DD	SW8270	
Anthracene	ND	5.0	ug/L	12/08/13	DD	SW8270	
Benzidine	ND	50	ug/L	12/08/13	DD	SW8270	
Benzoic acid	ND	50	ug/L	12/08/13	DD	SW8270	
Benzyl butyl phthalate	ND	5.0	ug/L	12/08/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	12/08/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	5.0	ug/L	12/08/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	12/08/13	DD	SW8270	
Carbazole	ND	5.0	ug/L	12/08/13	DD	SW8270	
Dibenzofuran	ND	5.0	ug/L	12/08/13	DD	SW8270	
Diethyl phthalate	ND	5.0	ug/L	12/08/13	DD	SW8270	
Dimethylphthalate	ND	5.0	ug/L	12/08/13	DD	SW8270	
Di-n-butylphthalate	7	5.0	ug/L	12/08/13	DD	SW8270	
Di-n-octylphthalate	ND	5.0	ug/L	12/08/13	DD	SW8270	
Fluoranthene	ND	5.0	ug/L	12/08/13	DD	SW8270	
Fluorene	ND	5.0	ug/L	12/08/13	DD	SW8270	
Hexachlorobutadiene	ND	5.0	ug/L	12/08/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	5.0	ug/L	12/08/13	DD	SW8270	
Isophorone	ND	5.0	ug/L	12/08/13	DD	SW8270	
Naphthalene	ND	5.0	ug/L	12/08/13	DD	SW8270	
Nitrobenzene	ND	5.0	ug/L	12/08/13	DD	SW8270	
N-Nitrosodimethylamine	ND	5.0	ug/L	12/08/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	12/08/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	5.0	ug/L	12/08/13	DD	SW8270	
Phenol	ND	5.0	ug/L	12/08/13	DD	SW8270	
Pyrene	ND	5.0	ug/L	12/08/13	DD	SW8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	121		%	12/08/13	DD	15 - 110 %	3
% 2-Fluorobiphenyl	85		%	12/08/13	DD	30 - 130 %	
% 2-Fluorophenol	71		%	12/08/13	DD	15 - 110 %	
% Nitrobenzene-d5	105		%	12/08/13	DD	30 - 130 %	
% Phenol-d5	72		%	12/08/13	DD	15 - 110 %	
% Terphenyl-d14	99		%	12/08/13	DD	30 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1.6	ug/L	12/06/13	DD	SW8270 (SIM)
Acenaphthene	ND	0.050	ug/L	12/06/13	DD	SW8270 (SIM)
Acenaphthylene	ND	0.050	ug/L	12/06/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.02	0.020	ug/L	12/06/13	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.020	ug/L	12/06/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	ND	0.020	ug/L	12/06/13	DD	SW8270 (SIM)
Benzo(ghi)perylene	ND	3.0	ug/L	12/06/13	DD	SW8270 (SIM)
Benzo(k)fluoranthene	ND	0.020	ug/L	12/06/13	DD	SW8270 (SIM)
Bis(2-ethylhexyl)phthalate	ND	1.6	ug/L	12/06/13	DD	SW8270 (SIM)
Chrysene	ND	0.020	ug/L	12/06/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	12/06/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.040	ug/L	12/06/13	DD	SW8270 (SIM)
Hexachloroethane	ND	2.4	ug/L	12/06/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	12/06/13	DD	SW8270 (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	12/06/13	DD	SW8270 (SIM)

Project ID: 874 WILLONGHBY
Client ID: SB-2 MW-2

Phoenix I.D.: BF85157

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Pentachlorophenol	ND	0.80	ug/L	12/06/13	DD	SW8270 (SIM)	
Phenanthrene	0.05	0.050	ug/L	12/06/13	DD	SW8270 (SIM)	
Pyridine	ND	0.50	ug/L	12/06/13	DD	SW8270 (SIM)	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	121		%	12/06/13	DD	15 - 110 %	3
% 2-Fluorobiphenyl	85		%	12/06/13	DD	30 - 130 %	
% 2-Fluorophenol	71		%	12/06/13	DD	15 - 110 %	
% Nitrobenzene-d5	105		%	12/06/13	DD	30 - 130 %	
% Phenol-d5	72		%	12/06/13	DD	15 - 110 %	
% Terphenyl-d14	99		%	12/06/13	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.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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.

* Poor surrogate recovery was observed. Insufficient sample for re-extraction.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	11:20
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85158

Project ID: 874 WILLONGHBY
Client ID: SB-6 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.34	0.34	mg/Kg	12/06/13	TH	SW6010	
Aluminum	11600	51	mg/Kg	12/06/13	TH	SW6010	
Arsenic	4.2	0.7	mg/Kg	12/06/13	TH	SW6010	
Barium	174	0.34	mg/Kg	12/07/13	LK	SW6010	
Beryllium	0.38	0.27	mg/Kg	12/06/13	TH	SW6010	
Calcium	18800	51	mg/Kg	12/07/13	LK	SW6010	
Cadmium	0.37	0.34	mg/Kg	12/06/13	TH	SW6010	
Cobalt	8.59	0.34	mg/Kg	12/06/13	TH	SW6010	
Chromium	49.2	0.34	mg/Kg	12/06/13	TH	SW6010	
Copper	42.3	0.34	mg/kg	12/06/13	TH	SW6010	
Iron	21500	51	mg/Kg	12/07/13	LK	SW6010	B
Mercury	0.21	0.07	mg/Kg	12/06/13	RS	SW-7471	
Potassium	4290	51	mg/Kg	12/07/13	LK	SW6010	
Magnesium	8000	51	mg/Kg	12/06/13	TH	SW6010	
Manganese	320	3.4	mg/Kg	12/07/13	LK	SW6010	B
Sodium	236	5.1	mg/Kg	12/07/13	LK	SW6010	
Nickel	35.8	0.34	mg/Kg	12/06/13	TH	SW6010	
Lead	218	3.4	mg/Kg	12/06/13	TH	SW6010	
Antimony	< 3.4	3.4	mg/Kg	12/07/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	12/06/13	TH	SW6010	
Thallium	< 3.0	3.0	mg/Kg	12/06/13	TH	SW6010	
Vanadium	42.1	0.34	mg/Kg	12/06/13	TH	SW6010	
Zinc	169	3.4	mg/Kg	12/07/13	LK	SW6010	B
Percent Solid	90		%	12/05/13	I	E160.3	
Soil Extraction for PCB	Completed			12/05/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			12/05/13	BB	SW3545	
Soil Extraction for SVOA	Completed			12/05/13	JJ/FV	SW3545	
Mercury Digestion	Completed			12/06/13	I/I	SW7471	

Project ID: 874 WILLONGHBY
Client ID: SB-6 (0-2)

Phoenix I.D.: BF85158

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/05/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			12/04/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	12/06/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	12/06/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	95		%	12/06/13	AW	30 - 150 %	
% TCMX	88		%	12/06/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	12/06/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	12/06/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	12/06/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	12/06/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	12/06/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	12/06/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	12/06/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	12/06/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	12/06/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endrin	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	12/06/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	12/06/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	12/06/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	12/06/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	12/06/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	12/06/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	12/06/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	83		%	12/06/13	MH	30 - 150 %	
% TCMX	98		%	12/06/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,1,1-Trichloroethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	4.5	ug/Kg	12/06/13	HM	SW8260	
1,1,2-Trichloroethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,1-Dichloroethene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-6 (0-2)

Phoenix I.D.: BF85158

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,2,3-Trichloropropane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,2-Dibromoethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichlorobenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloroethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,2-Dichloropropane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichlorobenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,3-Dichloropropane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
1,4-Dichlorobenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
2,2-Dichloropropane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
2-Chlorotoluene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
2-Hexanone	ND	38	ug/Kg	12/06/13	HM	SW8260	
2-Isopropyltoluene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	1
4-Chlorotoluene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	38	ug/Kg	12/06/13	HM	SW8260	
Acetone	ND	45	ug/Kg	12/06/13	HM	SW8260	
Acrylonitrile	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Benzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Bromobenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Bromochloromethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Bromodichloromethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Bromoform	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Bromomethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Carbon Disulfide	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Chlorobenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Chloroethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Chloroform	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Chloromethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Dibromochloromethane	ND	4.5	ug/Kg	12/06/13	HM	SW8260	
Dibromomethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Ethylbenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Isopropylbenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
m&p-Xylene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Methyl Ethyl Ketone	ND	45	ug/Kg	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	12/06/13	HM	SW8260	
Methylene chloride	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Naphthalene	70	7.5	ug/Kg	12/06/13	HM	SW8260	
n-Butylbenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
n-Propylbenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-6 (0-2)

Phoenix I.D.: BF85158

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
sec-Butylbenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Styrene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Tetrachloroethene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	15	ug/Kg	12/06/13	HM	SW8260	1
Toluene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Total Xylenes	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	12/06/13	HM	SW8260	
Trichloroethene	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
Vinyl chloride	ND	7.5	ug/Kg	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	108		%	12/06/13	HM	70 - 130 %	
% Bromofluorobenzene	85		%	12/06/13	HM	70 - 130 %	
% Dibromofluoromethane	115		%	12/06/13	HM	70 - 130 %	
% Toluene-d8	97		%	12/06/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
1,2-Dichlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	1800	ug/Kg	12/06/13	DD	SW 8270
1,3-Dichlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
1,4-Dichlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4-Dichlorophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4-Dimethylphenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrophenol	ND	2900	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrotoluene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2,6-Dinitrotoluene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Chloronaphthalene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Chlorophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Methylnaphthalene	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	12/06/13	DD	SW 8270
2-Nitroaniline	ND	2900	ug/Kg	12/06/13	DD	SW 8270
2-Nitrophenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	1800	ug/Kg	12/06/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	12/06/13	DD	SW 8270
3-Nitroaniline	ND	2900	ug/Kg	12/06/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	5300	ug/Kg	12/06/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	1800	ug/Kg	12/06/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270
4-Chloroaniline	ND	1300	ug/Kg	12/06/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	12/06/13	DD	SW 8270

Project ID: 874 WILLONGHBY
Client ID: SB-6 (0-2)

Phoenix I.D.: BF85158

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	2900	ug/Kg	12/06/13	DD	SW 8270	
4-Nitrophenol	ND	5300	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthene	1500	1300	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthylene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Acetophenone	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Aniline	ND	5300	ug/Kg	12/06/13	DD	SW 8270	
Anthracene	4000	1300	ug/Kg	12/06/13	DD	SW 8270	
Benz(a)anthracene	6700	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzidine	ND	2200	ug/Kg	12/06/13	DD	SW 8270	
Benzo(a)pyrene	5800	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzo(b)fluoranthene	6300	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzo(ghi)perylene	3100	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzo(k)fluoranthene	2300	1300	ug/Kg	12/06/13	DD	SW 8270	
Benzoic acid	ND	5300	ug/Kg	12/06/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	12/06/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Carbazole	ND	2700	ug/Kg	12/06/13	DD	SW 8270	
Chrysene	6800	1300	ug/Kg	12/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Dibenzofuran	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Diethyl phthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Dimethylphthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Di-n-butylphthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Di-n-octylphthalate	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Fluoranthene	13000	1300	ug/Kg	12/06/13	DD	SW 8270	
Fluorene	2000	1300	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobutadiene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Hexachloroethane	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	2800	1300	ug/Kg	12/06/13	DD	SW 8270	
Isophorone	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Naphthalene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Nitrobenzene	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
Pentachloronitrobenzene	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
Pentachlorophenol	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
Phenanthrene	17000	1300	ug/Kg	12/06/13	DD	SW 8270	
Phenol	ND	1300	ug/Kg	12/06/13	DD	SW 8270	
Pyrene	11000	1300	ug/Kg	12/06/13	DD	SW 8270	
Pyridine	ND	1800	ug/Kg	12/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	89		%	12/06/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	111		%	12/06/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY
Client ID: SB-6 (0-2)

Phoenix I.D.: BF85158

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	90		%	12/06/13	DD	30 - 130 %
% Nitrobenzene-d5	98		%	12/06/13	DD	30 - 130 %
% Phenol-d5	81		%	12/06/13	DD	30 - 130 %
% Terphenyl-d14	102		%	12/06/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is based on hexavalent chromium and trivalent chromium.

* 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 for the semivolatile analysis.

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.
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Phyllis Shiller, Laboratory Director
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	11:32
Location Code:	AEAS-INC	Received by:	SW	12/05/13	16:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85159

Project ID: 874 WILLONGHBY
Client ID: SB-6 (10-12)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.33	0.33	mg/Kg	12/06/13	TH	SW6010	
Aluminum	10300	50	mg/Kg	12/06/13	TH	SW6010	
Arsenic	3.5	0.7	mg/Kg	12/06/13	TH	SW6010	
Barium	87.6	0.33	mg/Kg	12/07/13	LK	SW6010	
Beryllium	0.37	0.26	mg/Kg	12/06/13	TH	SW6010	
Calcium	31100	50	mg/Kg	12/07/13	LK	SW6010	
Cadmium	< 0.33	0.33	mg/Kg	12/06/13	TH	SW6010	
Cobalt	4.62	0.33	mg/Kg	12/06/13	TH	SW6010	
Chromium	24.2	0.33	mg/Kg	12/06/13	TH	SW6010	
Copper	55.9	0.33	mg/kg	12/06/13	TH	SW6010	
Iron	15100	50	mg/Kg	12/07/13	LK	SW6010	B
Mercury	< 0.07	0.07	mg/Kg	12/06/13	RS	SW-7471	
Potassium	2150	5.0	mg/Kg	12/07/13	LK	SW6010	
Magnesium	4140	5.0	mg/Kg	12/06/13	TH	SW6010	
Manganese	253	3.3	mg/Kg	12/07/13	LK	SW6010	B
Sodium	751	5.0	mg/Kg	12/07/13	LK	SW6010	
Nickel	16.6	0.33	mg/Kg	12/06/13	TH	SW6010	
Lead	39.8	0.33	mg/Kg	12/06/13	TH	SW6010	
Antimony	< 3.3	3.3	mg/Kg	12/07/13	LK	SW6010	
Selenium	< 1.3	1.3	mg/Kg	12/06/13	TH	SW6010	
Thallium	< 3.0	3.0	mg/Kg	12/06/13	TH	SW6010	
Vanadium	25.4	0.33	mg/Kg	12/06/13	TH	SW6010	
Zinc	53.1	0.33	mg/Kg	12/07/13	LK	SW6010	B
Percent Solid	88		%	12/05/13	I	E160.3	
Soil Extraction for PCB	Completed			12/05/13	BB/V	SW3545	
Soil Extraction for Pesticide	Completed			12/05/13	BB	SW3545	
Soil Extraction for SVOA	Completed			12/05/13	BJ/FV	SW3545	
Mercury Digestion	Completed			12/06/13	I/I	SW7471	

Project ID: 874 WILLONGHBY
Client ID: SB-6 (10-12)

Phoenix I.D.: BF85159

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			12/05/13	Z/AG	SW846 - 3050	
Field Extraction	Completed			12/04/13		SW5035	
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1221	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1232	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1242	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1248	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1254	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1260	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1262	ND	370	ug/Kg	12/06/13	AW	SW 8082	
PCB-1268	ND	370	ug/Kg	12/06/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	90		%	12/06/13	AW	30 - 150 %	
% TCMX	88		%	12/06/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	36	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDE	ND	36	ug/Kg	12/06/13	MH	SW8081	
4,4' -DDT	ND	36	ug/Kg	12/06/13	MH	SW8081	
a-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Alachlor	ND	18	ug/Kg	12/06/13	MH	SW8081	1
Aldrin	16	5.5	ug/Kg	12/06/13	MH	SW8081	
b-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Chlordane	ND	55	ug/Kg	12/06/13	MH	SW8081	
d-BHC	ND	18	ug/Kg	12/06/13	MH	SW8081	
Dieldrin	ND	5.5	ug/Kg	12/06/13	MH	SW8081	
Endosulfan I	ND	18	ug/Kg	12/06/13	MH	SW8081	
Endosulfan II	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endosulfan sulfate	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endrin	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endrin aldehyde	ND	36	ug/Kg	12/06/13	MH	SW8081	
Endrin ketone	ND	36	ug/Kg	12/06/13	MH	SW8081	
g-BHC	ND	5.5	ug/Kg	12/06/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	12/06/13	MH	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	12/06/13	MH	SW8081	
Methoxychlor	ND	180	ug/Kg	12/06/13	MH	SW8081	
Toxaphene	ND	180	ug/Kg	12/06/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	84		%	12/06/13	MH	30 - 150 %	
% TCMX	9600		%	12/06/13	MH	30 - 150 %	3
Volatiles							
1,1,1,2-Tetrachloroethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,1,1-Trichloroethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	9.0	ug/Kg	12/07/13	HM	SW8260	
1,1,2-Trichloroethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,1-Dichloroethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,1-Dichloroethene	ND	15	ug/Kg	12/07/13	HM	SW8260	

Project ID: 874 WILLONGHBY
Client ID: SB-6 (10-12)

Phoenix I.D.: BF85159

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,1-Dichloropropene	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,2,3-Trichloropropane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,2-Dibromoethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,2-Dichlorobenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,2-Dichloroethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,2-Dichloropropane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,3-Dichlorobenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,3-Dichloropropane	ND	15	ug/Kg	12/07/13	HM	SW8260	
1,4-Dichlorobenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
2,2-Dichloropropane	ND	15	ug/Kg	12/07/13	HM	SW8260	
2-Chlorotoluene	ND	15	ug/Kg	12/07/13	HM	SW8260	
2-Hexanone	ND	75	ug/Kg	12/07/13	HM	SW8260	
2-Isopropyltoluene	ND	15	ug/Kg	12/07/13	HM	SW8260	1
4-Chlorotoluene	ND	15	ug/Kg	12/07/13	HM	SW8260	
4-Methyl-2-pentanone	ND	75	ug/Kg	12/07/13	HM	SW8260	
Acetone	ND	200	ug/Kg	12/07/13	HM	SW8260	
Acrylonitrile	ND	15	ug/Kg	12/07/13	HM	SW8260	
Benzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Bromobenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Bromochloromethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
Bromodichloromethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
Bromoform	ND	15	ug/Kg	12/07/13	HM	SW8260	
Bromomethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
Carbon Disulfide	ND	15	ug/Kg	12/07/13	HM	SW8260	
Carbon tetrachloride	ND	15	ug/Kg	12/07/13	HM	SW8260	
Chlorobenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Chloroethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
Chloroform	ND	15	ug/Kg	12/07/13	HM	SW8260	
Chloromethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	15	ug/Kg	12/07/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Dibromochloromethane	ND	9.0	ug/Kg	12/07/13	HM	SW8260	
Dibromomethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
Dichlorodifluoromethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
Ethylbenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Hexachlorobutadiene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Isopropylbenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
m&p-Xylene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Methyl Ethyl Ketone	ND	90	ug/Kg	12/07/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	30	ug/Kg	12/07/13	HM	SW8260	
Methylene chloride	ND	15	ug/Kg	12/07/13	HM	SW8260	
Naphthalene	ND	15	ug/Kg	12/07/13	HM	SW8260	
n-Butylbenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
n-Propylbenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
o-Xylene	ND	15	ug/Kg	12/07/13	HM	SW8260	
p-Isopropyltoluene	ND	15	ug/Kg	12/07/13	HM	SW8260	
sec-Butylbenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Styrene	ND	15	ug/Kg	12/07/13	HM	SW8260	
tert-Butylbenzene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Tetrachloroethene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	30	ug/Kg	12/07/13	HM	SW8260	1
Toluene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Total Xylenes	ND	15	ug/Kg	12/07/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	15	ug/Kg	12/07/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	15	ug/Kg	12/07/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	30	ug/Kg	12/07/13	HM	SW8260	
Trichloroethene	ND	15	ug/Kg	12/07/13	HM	SW8260	
Trichlorofluoromethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
Trichlorotrifluoroethane	ND	15	ug/Kg	12/07/13	HM	SW8260	
Vinyl chloride	ND	15	ug/Kg	12/07/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	113		%	12/07/13	HM	70 - 130 %	
% Bromofluorobenzene	87		%	12/07/13	HM	70 - 130 %	
% Dibromofluoromethane	101		%	12/07/13	HM	70 - 130 %	
% Toluene-d8	101		%	12/07/13	HM	70 - 130 %	

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,2,4-Trichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,2-Dichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,2-Diphenylhydrazine	ND	370	ug/Kg	12/06/13	DD	SW 8270
1,3-Dichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
1,4-Dichlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4,5-Trichlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4,6-Trichlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4-Dichlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4-Dimethylphenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrophenol	ND	600	ug/Kg	12/06/13	DD	SW 8270
2,4-Dinitrotoluene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2,6-Dinitrotoluene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Chloronaphthalene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Chlorophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Methylnaphthalene	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Methylphenol (o-cresol)	ND	260	ug/Kg	12/06/13	DD	SW 8270
2-Nitroaniline	ND	600	ug/Kg	12/06/13	DD	SW 8270
2-Nitrophenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	12/06/13	DD	SW 8270
3,3'-Dichlorobenzidine	ND	260	ug/Kg	12/06/13	DD	SW 8270
3-Nitroaniline	ND	600	ug/Kg	12/06/13	DD	SW 8270
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	12/06/13	DD	SW 8270
4-Bromophenyl phenyl ether	ND	370	ug/Kg	12/06/13	DD	SW 8270
4-Chloro-3-methylphenol	ND	260	ug/Kg	12/06/13	DD	SW 8270
4-Chloroaniline	ND	260	ug/Kg	12/06/13	DD	SW 8270
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	12/06/13	DD	SW 8270

Project ID: 874 WILLONGHBY
Client ID: SB-6 (10-12)

Phoenix I.D.: BF85159

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Nitroaniline	ND	600	ug/Kg	12/06/13	DD	SW 8270	
4-Nitrophenol	ND	1100	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Acenaphthylene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Acetophenone	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Aniline	ND	1100	ug/Kg	12/06/13	DD	SW 8270	
Anthracene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Benz(a)anthracene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Benzidine	ND	450	ug/Kg	12/06/13	DD	SW 8270	
Benzo(a)pyrene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Benzo(b)fluoranthene	300	260	ug/Kg	12/06/13	DD	SW 8270	
Benzo(ghi)perylene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Benzoic acid	ND	1100	ug/Kg	12/06/13	DD	SW 8270	LO
Benzyl butyl phthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroethyl)ether	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	12/06/13	DD	SW 8270	1
Bis(2-ethylhexyl)phthalate	350	260	ug/Kg	12/06/13	DD	SW 8270	
Carbazole	ND	560	ug/Kg	12/06/13	DD	SW 8270	
Chrysene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Dibenzofuran	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Diethyl phthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Dimethylphthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Di-n-butylphthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Di-n-octylphthalate	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Fluoranthene	430	260	ug/Kg	12/06/13	DD	SW 8270	
Fluorene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorobutadiene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Hexachloroethane	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Isophorone	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Naphthalene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Nitrobenzene	ND	260	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodimethylamine	ND	370	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	12/06/13	DD	SW 8270	
N-Nitrosodiphenylamine	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Pentachloronitrobenzene	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Pentachlorophenol	ND	370	ug/Kg	12/06/13	DD	SW 8270	
Phenanthrene	340	260	ug/Kg	12/06/13	DD	SW 8270	
Phenol	ND	260	ug/Kg	12/06/13	DD	SW 8270	
Pyrene	350	260	ug/Kg	12/06/13	DD	SW 8270	
Pyridine	ND	370	ug/Kg	12/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2,4,6-Tribromophenol	93		%	12/06/13	DD	30 - 130 %	
% 2-Fluorobiphenyl	102		%	12/06/13	DD	30 - 130 %	

Project ID: 874 WILLONGHBY
Client ID: SB-6 (10-12)

Phoenix I.D.: BF85159

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorophenol	90		%	12/06/13	DD	30 - 130 %
% Nitrobenzene-d5	95		%	12/06/13	DD	30 - 130 %
% Phenol-d5	91		%	12/06/13	DD	30 - 130 %
% Terphenyl-d14	86		%	12/06/13	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.
1O = This parameter is not certified by NY NELAC for this matrix.
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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

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 unrestricted soil criteria for chromium is 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.
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Phyllis Shiller, Laboratory Director
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

NY # 11301

Analysis Report

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/04/13	0:00
Location Code:	AEAS-INC	Received by:	SW	12/05/13	0:00
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85189

Project ID: 874 WILLONGHBY AVE
Client ID: TRIP BLANK WATER

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	12/06/13	HM	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	12/06/13	HM	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	12/06/13	HM	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	12/06/13	HM	SW8260	
2-Hexanone	ND	5.0	ug/L	12/06/13	HM	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	12/06/13	HM	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	12/06/13	HM	SW8260	

Project ID: 874 WILLONGHBY AVE
Client ID: TRIP BLANK WATER

Phoenix I.D.: BF85189

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Acetone	ND	25	ug/L	12/06/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/L	12/06/13	HM	SW8260	
Benzene	ND	0.70	ug/L	12/06/13	HM	SW8260	
Bromobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Bromochloromethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Bromodichloromethane	ND	0.50	ug/L	12/06/13	HM	SW8260	
Bromoform	ND	1.0	ug/L	12/06/13	HM	SW8260	
Bromomethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/L	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	12/06/13	HM	SW8260	
Chlorobenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Chloroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Chloroform	ND	1.0	ug/L	12/06/13	HM	SW8260	
Chloromethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	0.40	ug/L	12/06/13	HM	SW8260	
Dibromochloromethane	ND	0.50	ug/L	12/06/13	HM	SW8260	
Dibromomethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Ethylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	12/06/13	HM	SW8260	
Isopropylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
m&p-Xylene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	12/06/13	HM	SW8260	
Methylene chloride	ND	1.0	ug/L	12/06/13	HM	SW8260	
Naphthalene	ND	1.0	ug/L	12/06/13	HM	SW8260	
n-Butylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
n-Propylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
o-Xylene	ND	1.0	ug/L	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	12/06/13	HM	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Styrene	ND	1.0	ug/L	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Tetrachloroethene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	12/06/13	HM	SW8260	1
Toluene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Total Xylenes	ND	2.0	ug/L	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	12/06/13	HM	SW8260	
Trichloroethene	ND	1.0	ug/L	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	12/06/13	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	12/06/13	HM	70 - 130 %	
% Bromofluorobenzene	100		%	12/06/13	HM	70 - 130 %	
% Dibromofluoromethane	100		%	12/06/13	HM	70 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: TRIP BLANK WATER

Phoenix I.D.: BF85189

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	103		%	12/06/13	HM	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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	0:00
Location Code:	AEAS-INC	Received by:	SW	12/05/13	0:00
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85190

Project ID: 874 WILLONGHBY AVE
Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/04/13		E160.3
Field Extraction	Completed			12/04/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	12/06/13	HM	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	12/06/13	HM	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	12/06/13	HM	SW8260
2-Hexanone	ND	25	ug/Kg	12/06/13	HM	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	12/06/13	HM	SW8260 1

Project ID: 874 WILLONGHBY AVE
Client ID: TRIP BLANK LL

Phoenix I.D.: BF85190

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Chlorotoluene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	25	ug/Kg	12/06/13	HM	SW8260	
Acetone	ND	30	ug/Kg	12/06/13	HM	SW8260	
Acrylonitrile	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Benzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Bromobenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Bromochloromethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Bromodichloromethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Bromoform	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Bromomethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Carbon Disulfide	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Chlorobenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Chloroethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Chloroform	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Chloromethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Dibromochloromethane	ND	3.0	ug/Kg	12/06/13	HM	SW8260	
Dibromomethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Ethylbenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Isopropylbenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
m&p-Xylene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Methyl Ethyl Ketone	ND	30	ug/Kg	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	12/06/13	HM	SW8260	
Methylene chloride	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Naphthalene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
n-Butylbenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
n-Propylbenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
o-Xylene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
sec-Butylbenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Styrene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Tetrachloroethene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	10	ug/Kg	12/06/13	HM	SW8260	1
Toluene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Total Xylenes	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	12/06/13	HM	SW8260	
Trichloroethene	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
Vinyl chloride	ND	5.0	ug/Kg	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	12/06/13	HM	70 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: TRIP BLANK LL

Phoenix I.D.: BF85190

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Bromofluorobenzene	96		%	12/06/13	HM	70 - 130 %
% Dibromofluoromethane	107		%	12/06/13	HM	70 - 130 %
% Toluene-d8	99		%	12/06/13	HM	70 - 130 %

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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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Phyllis Shiller, Laboratory Director
December 12, 2013
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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

December 12, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		12/04/13	0:00
Location Code:	AEAS-INC	Received by:	SW	12/05/13	0:00
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	13-0219				

Laboratory Data

SDG ID: GBF85150
Phoenix ID: BF85191

Project ID: 874 WILLONGHBY AVE
Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/04/13		E160.3
Field Extraction	Completed			12/04/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	12/06/13	HM	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	12/06/13	HM	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	12/06/13	HM	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	12/06/13	HM	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	12/06/13	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	12/06/13	HM	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	12/06/13	HM	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	12/06/13	HM	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	12/06/13	HM	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	12/06/13	HM	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	12/06/13	HM	SW8260
2-Chlorotoluene	ND	250	ug/Kg	12/06/13	HM	SW8260
2-Hexanone	ND	1300	ug/Kg	12/06/13	HM	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	12/06/13	HM	SW8260 1

Project ID: 874 WILLONGHBY AVE
Client ID: TRIP BLANK HL

Phoenix I.D.: BF85191

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Chlorotoluene	ND	250	ug/Kg	12/06/13	HM	SW8260	
4-Methyl-2-pentanone	ND	1300	ug/Kg	12/06/13	HM	SW8260	
Acetone	ND	5000	ug/Kg	12/06/13	HM	SW8260	
Acrylonitrile	ND	500	ug/Kg	12/06/13	HM	SW8260	
Benzene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Bromobenzene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Bromochloromethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
Bromodichloromethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
Bromoform	ND	250	ug/Kg	12/06/13	HM	SW8260	
Bromomethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
Carbon Disulfide	ND	250	ug/Kg	12/06/13	HM	SW8260	
Carbon tetrachloride	ND	250	ug/Kg	12/06/13	HM	SW8260	
Chlorobenzene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Chloroethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
Chloroform	ND	250	ug/Kg	12/06/13	HM	SW8260	
Chloromethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
cis-1,2-Dichloroethene	ND	250	ug/Kg	12/06/13	HM	SW8260	
cis-1,3-Dichloropropene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Dibromochloromethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
Dibromomethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
Dichlorodifluoromethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
Ethylbenzene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Hexachlorobutadiene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Isopropylbenzene	ND	250	ug/Kg	12/06/13	HM	SW8260	
m&p-Xylene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Methyl Ethyl Ketone	ND	3000	ug/Kg	12/06/13	HM	SW8260	
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	12/06/13	HM	SW8260	
Methylene chloride	ND	500	ug/Kg	12/06/13	HM	SW8260	
Naphthalene	ND	250	ug/Kg	12/06/13	HM	SW8260	
n-Butylbenzene	ND	250	ug/Kg	12/06/13	HM	SW8260	
n-Propylbenzene	ND	250	ug/Kg	12/06/13	HM	SW8260	
o-Xylene	ND	250	ug/Kg	12/06/13	HM	SW8260	
p-Isopropyltoluene	ND	250	ug/Kg	12/06/13	HM	SW8260	
sec-Butylbenzene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Styrene	ND	250	ug/Kg	12/06/13	HM	SW8260	
tert-Butylbenzene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Tetrachloroethene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Tetrahydrofuran (THF)	ND	500	ug/Kg	12/06/13	HM	SW8260	1
Toluene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Total Xylenes	ND	250	ug/Kg	12/06/13	HM	SW8260	
trans-1,2-Dichloroethene	ND	250	ug/Kg	12/06/13	HM	SW8260	
trans-1,3-Dichloropropene	ND	250	ug/Kg	12/06/13	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	12/06/13	HM	SW8260	
Trichloroethene	ND	250	ug/Kg	12/06/13	HM	SW8260	
Trichlorofluoromethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
Trichlorotrifluoroethane	ND	250	ug/Kg	12/06/13	HM	SW8260	
Vinyl chloride	ND	250	ug/Kg	12/06/13	HM	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	12/06/13	HM	70 - 130 %	

Project ID: 874 WILLONGHBY AVE
Client ID: TRIP BLANK HL

Phoenix I.D.: BF85191

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Bromofluorobenzene	94		%	12/06/13	HM	70 - 130 %
% Dibromofluoromethane	106		%	12/06/13	HM	70 - 130 %
% Toluene-d8	101		%	12/06/13	HM	70 - 130 %

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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

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Phyllis Shiller, Laboratory Director
December 12, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

December 12, 2013

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 261200, QC Sample No: BF82929 (BF85157)													
Thallium - Water	BRL	<0.002	<0.002	NC	107	106	0.9	103	98.5	4.5	75 - 125	20	
QA/QC Batch 261586, QC Sample No: BF84728 (BF85150, BF85151)													
Mercury - Soil	BRL	0.19	0.22	NC	99.9	102	2.1	99.6	108	8.1	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 261549, QC Sample No: BF84858 (BF85157)													
ICP Metals - Aqueous													
Aluminum	BRL	0.067	0.056	17.9	86.8	84.2	3.0	84.2	80.6	4.4	75 - 125	20	
Antimony	BRL	<0.005	<0.005	NC	90.0	89.5	0.6	93.1	90.8	2.5	75 - 125	20	
Arsenic	BRL	<0.004	<0.004	NC	86.8	85.3	1.7	88.5	88.1	0.5	75 - 125	20	
Barium	BRL	0.059	0.057	3.40	89.6	87.8	2.0	89.6	87.9	1.9	75 - 125	20	
Beryllium	BRL	<0.001	<0.001	NC	90.3	88.4	2.1	91.6	90.5	1.2	75 - 125	20	
Cadmium	BRL	<0.001	<0.001	NC	89.2	86.7	2.8	87.4	87.3	0.1	75 - 125	20	
Calcium	BRL	33.7	32.9	2.40	92.0	89.9	2.3	NC	NC	NC	75 - 125	20	
Chromium	BRL	<0.001	<0.001	NC	88.9	86.2	3.1	88.7	88.4	0.3	75 - 125	20	
Cobalt	BRL	<0.002	<0.002	NC	91.4	88.7	3.0	90.5	90.5	0.0	75 - 125	20	
Copper	BRL	<0.005	<0.005	NC	90.8	89.3	1.7	92.4	91.1	1.4	75 - 125	20	
Iron	BRL	1.90	1.82	4.30	91.2	89.5	1.9	81.2	80.0	1.5	75 - 125	20	
Lead	BRL	<0.002	<0.002	NC	88.0	85.2	3.2	86.9	86.8	0.1	75 - 125	20	
Magnesium	BRL	8.24	8.02	2.70	93.7	91.3	2.6	NC	NC	NC	75 - 125	20	
Manganese	BRL	0.441	0.419	5.10	90.9	88.5	2.7	88.2	87.7	0.6	75 - 125	20	
Nickel	BRL	0.003	0.003	NC	90.1	87.3	3.2	88.8	88.4	0.5	75 - 125	20	
Potassium	BRL	9.3	9.3	0	99.9	99.1	0.8	96.4	87.4	9.8	75 - 125	20	
Selenium	BRL	<0.010	<0.010	NC	87.4	86.1	1.5	88.1	87.7	0.5	75 - 125	20	
Silver	BRL	<0.001	<0.001	NC	89.4	87.2	2.5	90.4	90.1	0.3	75 - 125	20	
Sodium	BRL	31.1	31.0	0.30	101	99.1	1.9	NC	NC	NC	75 - 125	20	
Vanadium	BRL	<0.002	<0.002	NC	90.3	88.6	1.9	91.6	91.1	0.5	75 - 125	20	
Zinc	BRL	0.019	0.018	5.40	89.4	86.9	2.8	89.8	89.3	0.6	75 - 125	20	
QA/QC Batch 261588, QC Sample No: BF84890 (BF85157)													
Mercury - Water	BRL	<0.0002	<0.0002	NC	104	102	1.9	97.6	89.3	8.9	70 - 130	20	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 261548, QC Sample No: BF85106 (BF85151, BF85152, BF85153, BF85154, BF85155, BF85156, BF85158, BF85159)													
ICP Metals - Soil													
Aluminum	BRL	12100	7600	45.7	94.9	104	9.2	NC	NC	NC	75 - 125	30	r
Antimony	BRL	<3.9	<3.7	NC	72.5	77.3	6.4	72.0	78.7	8.9	75 - 125	30	l,m
Arsenic	BRL	4.3	2.63	NC	99.2	110	10.3	91.5	91.9	0.4	75 - 125	30	
Barium	BRL	157	89.8	54.5	95.8	106	10.1	84.9	64.5	27.3	75 - 125	30	m,r
Beryllium	BRL	0.50	0.29	NC	98.7	110	10.8	97.0	97.8	0.8	75 - 125	30	
Cadmium	BRL	<0.39	<0.37	NC	105	116	10.0	95.2	96.4	1.3	75 - 125	30	
Calcium	BRL	692	407	51.9	103	113	9.3	30.7	0	NC	75 - 125	30	m,r

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chromium	BRL	14.5	8.90	47.9	101	112	10.3	98.7	96.6	2.2	75 - 125	30	r
Cobalt	BRL	7.85	4.99	44.5	103	115	11.0	99.5	98.6	0.9	75 - 125	30	r
Copper	BRL	16.3	11.0	38.8	95.7	108	12.1	100	97.9	2.1	75 - 125	30	r
Iron	5.5	27400	15800	53.7	102	118	14.5	NC	NC	NC	75 - 125	30	r
Lead	BRL	24.7	14.3	53.3	104	114	9.2	94.9	94.7	0.2	75 - 125	30	r
Magnesium	BRL	3730	2450	41.4	107	119	10.6	NC	NC	NC	75 - 125	30	r
Manganese	0.49	221	122	57.7	102	113	10.2	NC	NC	NC	75 - 125	30	r
Nickel	BRL	19.9	12.6	44.9	104	116	10.9	96.4	93.9	2.6	75 - 125	30	r
Potassium	BRL	883	663	28.5	93.6	98.8	5.4	>130	>130	NC	75 - 125	30	m
Selenium	BRL	<1.6	<1.5	NC	101	113	11.2	84.1	84.5	0.5	75 - 125	30	
Silver	BRL	<0.39	<0.37	NC	99.2	112	12.1	96.4	96.3	0.1	75 - 125	30	
Sodium	BRL	29.1	15.9	NC	99.2	105	5.7	118	110	7.0	75 - 125	30	
Thallium	BRL	<3.5	<3.3	NC	102	113	10.2	95.5	96.1	0.6	75 - 125	30	
Vanadium	BRL	16.2	9.71	50.1	96.4	109	12.3	99.1	97.3	1.8	75 - 125	30	r
Zinc	1.27	78.2	56.7	31.9	103	114	10.1	104	114	9.2	75 - 125	30	r
QA/QC Batch 261587, QC Sample No: BF85152 (BF85152, BF85153, BF85154, BF85155, BF85156, BF85158, BF85159)													
Mercury - Soil	BRL	0.24	0.22	NC	111	99.5	10.9	86.1	88.3	2.5	70 - 130	30	

Comment:

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

QA/QC Batch 261665, QC Sample No: BF85593 (BF85150)

ICP Metals - Soil

Aluminum	BRL	6960	7760	10.9	105	107	1.9	NC	NC	NC	75 - 125	30	
Antimony	BRL	352	349	0.90	96.3	103	6.7	110	105	4.7	75 - 125	30	
Arsenic	BRL	4.9	4.4	NC	97.0	104	7.0	86.3	85.8	0.6	75 - 125	30	
Barium	BRL	74.5	77.2	3.60	97.6	106	8.3	104	98.0	5.9	75 - 125	30	
Beryllium	BRL	<0.39	<0.41	NC	95.2	100	4.9	94.1	92.9	1.3	75 - 125	30	
Cadmium	BRL	1.50	1.38	NC	99.4	106	6.4	90.1	89.2	1.0	75 - 125	30	
Calcium	BRL	1460	1350	7.80	99.7	111	10.7	NC	NC	NC	75 - 125	30	
Chromium	BRL	50.2	50.3	0.20	102	105	2.9	105	97.1	7.8	75 - 125	30	
Cobalt	BRL	4.54	4.83	6.20	96.3	101	4.8	92.7	90.9	2.0	75 - 125	30	
Copper	BRL	307	301	2.00	97.1	102	4.9	>130	113	NC	75 - 125	30	m
Iron	BRL	23700	23700	0	105	114	8.2	NC	NC	NC	75 - 125	30	
Lead	BRL	518	473	9.10	100	105	4.9	81.7	69.0	16.9	75 - 125	30	m
Magnesium	BRL	2000	2250	11.8	105	109	3.7	NC	NC	NC	75 - 125	30	
Manganese	BRL	298	276	7.70	97.4	105	7.5	86.5	85.9	0.7	75 - 125	30	
Nickel	BRL	22.7	21.5	5.40	101	106	4.8	92.9	90.5	2.6	75 - 125	30	
Potassium	BRL	833	1030	21.1	107	110	2.8	>130	>130	NC	75 - 125	30	m
Selenium	BRL	<1.9	<2.0	NC	101	112	10.3	78.6	78.9	0.4	75 - 125	30	
Silver	BRL	11.0	10.5	4.70	101	105	3.9	101	94.1	7.1	75 - 125	30	
Sodium	BRL	85.7	93.4	8.60	109	109	0.0	>130	>130	NC	75 - 125	30	m
Thallium	BRL	<4.3	<4.6	NC	98.3	103	4.7	91.5	90.7	0.9	75 - 125	30	
Vanadium	BRL	23.5	24.4	3.80	97.4	106	8.5	97.6	94.7	3.0	75 - 125	30	
Zinc	BRL	150	145	3.40	95.5	101	5.6	105	84.1	22.1	75 - 125	30	

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.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

December 12, 2013

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 261657, QC Sample No: BF82878 (BF85151 (42X))										
Volatiles - Soil										
Tetrachloroethene	ND	100	109	8.6	103	108	4.7	70 - 130	30	
Comment:										
Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.										
QA/QC Batch 261274, QC Sample No: BF82927 (BF85157)										
Polychlorinated Biphenyls - Ground Water										
PCB-1016	ND	93	72	25.5				40 - 140	20	r
PCB-1221	ND							40 - 140	20	
PCB-1232	ND							40 - 140	20	
PCB-1242	ND							40 - 140	20	
PCB-1248	ND							40 - 140	20	
PCB-1254	ND							40 - 140	20	
PCB-1260	ND	101	80	23.2				40 - 140	20	r
PCB-1262	ND							40 - 140	20	
PCB-1268	ND							40 - 140	20	
% DCBP (Surrogate Rec)	100	66	41	46.7				30 - 150	20	r
% TCMX (Surrogate Rec)	85	92	67	31.4				30 - 150	20	r
Comment:										
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.										
QA/QC Batch 261396, QC Sample No: BF82928 (BF85157)										
Semivolatiles - Ground Water										
1,2,4,5-Tetrachlorobenzene	ND	87	89	2.3				30 - 130	20	
1,2,4-Trichlorobenzene	ND	86	87	1.2				30 - 130	20	
1,2-Dichlorobenzene	ND	88	90	2.2				30 - 130	20	
1,2-Diphenylhydrazine	ND	95	99	4.1				30 - 130	20	
1,3-Dichlorobenzene	ND	88	90	2.2				30 - 130	20	
1,4-Dichlorobenzene	ND	87	90	3.4				30 - 130	20	
2,4,5-Trichlorophenol	ND	101	104	2.9				30 - 130	20	
2,4,6-Trichlorophenol	ND	101	104	2.9				30 - 130	20	
2,4-Dichlorophenol	ND	91	94	3.2				30 - 130	20	
2,4-Dimethylphenol	ND	59	60	1.7				30 - 130	20	
2,4-Dinitrophenol	ND	100	107	6.8				30 - 130	20	
2,4-Dinitrotoluene	ND	99	101	2.0				30 - 130	20	
2,6-Dinitrotoluene	ND	98	102	4.0				30 - 130	20	
2-Chloronaphthalene	ND	96	97	1.0				30 - 130	20	
2-Chlorophenol	ND	87	90	3.4				30 - 130	20	
2-Methylnaphthalene	ND	87	89	2.3				30 - 130	20	
2-Methylphenol (o-cresol)	ND	80	85	6.1				30 - 130	20	
2-Nitroaniline	ND	121	133	9.4				30 - 130	20	l
2-Nitrophenol	ND	87	90	3.4				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	83	86	3.6				30 - 130	20	

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
3,3'-Dichlorobenzidine	ND	148	148	0.0				30 - 130	20	I
3-Nitroaniline	ND	106	111	4.6				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	105	113	7.3				30 - 130	20	
4-Bromophenyl phenyl ether	ND	97	99	2.0				30 - 130	20	
4-Chloro-3-methylphenol	ND	92	96	4.3				30 - 130	20	
4-Chloroaniline	ND	70	73	4.2				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	96	97	1.0				30 - 130	20	
4-Nitroaniline	ND	98	103	5.0				30 - 130	20	
4-Nitrophenol	ND	100	105	4.9				15 - 130	20	
Acenaphthene	ND	98	100	2.0				30 - 130	20	
Acenaphthylene	ND	96	98	2.1				30 - 130	20	
Acetophenone	ND	97	101	4.0				30 - 130	20	
Aniline	ND	74	78	5.3				30 - 130	20	
Anthracene	ND	97	98	1.0				30 - 130	20	
Benz(a)anthracene	ND	98	99	1.0				30 - 130	20	
Benzidine	ND	21	20	4.9				30 - 130	20	I
Benzo(a)pyrene	ND	91	93	2.2				30 - 130	20	
Benzo(b)fluoranthene	ND	104	106	1.9				30 - 130	20	
Benzo(ghi)perylene	ND	98	108	9.7				30 - 130	20	
Benzo(k)fluoranthene	ND	95	95	0.0				30 - 130	20	
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20	
Benzyl butyl phthalate	ND	92	96	4.3				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	90	92	2.2				30 - 130	20	
Bis(2-chloroethyl)ether	ND	86	90	4.5				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	86	91	5.6				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	97	96	1.0				30 - 130	20	
Carbazole	ND	96	104	8.0				30 - 130	20	
Chrysene	ND	98	97	1.0				30 - 130	20	
Dibenz(a,h)anthracene	ND	97	105	7.9				30 - 130	20	
Dibenzofuran	ND	95	97	2.1				30 - 130	20	
Diethyl phthalate	ND	96	99	3.1				30 - 130	20	
Dimethylphthalate	ND	96	99	3.1				30 - 130	20	
Di-n-butylphthalate	ND	99	101	2.0				30 - 130	20	
Di-n-octylphthalate	ND	98	100	2.0				30 - 130	20	
Fluoranthene	ND	99	100	1.0				30 - 130	20	
Fluorene	ND	98	99	1.0				30 - 130	20	
Hexachlorobenzene	ND	96	99	3.1				30 - 130	20	
Hexachlorobutadiene	ND	87	88	1.1				30 - 130	20	
Hexachlorocyclopentadiene	ND	82	85	3.6				30 - 130	20	
Hexachloroethane	ND	86	89	3.4				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	97	105	7.9				30 - 130	20	
Isophorone	ND	96	98	2.1				30 - 130	20	
Naphthalene	ND	92	94	2.2				30 - 130	20	
Nitrobenzene	ND	89	93	4.4				30 - 130	20	
N-Nitrosodimethylamine	ND	77	84	8.7				30 - 130	20	
N-Nitrosodi-n-propylamine	ND	90	95	5.4				30 - 130	20	
N-Nitrosodiphenylamine	ND	98	101	3.0				30 - 130	20	
Pentachloronitrobenzene	ND	99	100	1.0				30 - 130	20	
Pentachlorophenol	ND	100	102	2.0				30 - 130	20	
Phenanthrene	ND	97	99	2.0				30 - 130	20	
Phenol	ND	75	79	5.2				15 - 130	20	
Pyrene	ND	99	98	1.0				30 - 130	20	
Pyridine	ND	53	51	3.8				30 - 130	20	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% 2,4,6-Tribromophenol	93	91	92	1.1				15 - 110	20	
% 2-Fluorobiphenyl	83	86	88	2.3				30 - 130	20	
% 2-Fluorophenol	73	67	69	2.9				15 - 110	20	
% Nitrobenzene-d5	94	82	86	4.8				30 - 130	20	
% Phenol-d5	65	68	72	5.7				15 - 110	20	
% Terphenyl-d14	102	96	94	2.1				30 - 130	20	

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 261407, QC Sample No: BF84259 (BF85150, BF85151, BF85152, BF85153, BF85154)

Pesticides - Soil

4,4' -DDD	ND	92	80	14.0	96	118	20.6	40 - 140	30	
4,4' -DDE	ND	84	86	2.4	85	97	13.2	40 - 140	30	
4,4' -DDT	ND	77	79	2.6	82	96	15.7	40 - 140	30	
a-BHC	ND	86	92	6.7	87	93	6.7	40 - 140	30	
a-Chlordane	ND	84	89	5.8	80	87	8.4	40 - 140	30	
Alachlor	ND	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	87	90	3.4	82	90	9.3	40 - 140	30	
b-BHC	ND	86	90	4.5	84	92	9.1	40 - 140	30	
Chlordane	ND	NA	NA	NC	NA	NA	NC	40 - 140	30	
d-BHC	ND	73	76	4.0	71	77	8.1	40 - 140	30	
Dieldrin	ND	84	89	5.8	83	91	9.2	40 - 140	30	
Endosulfan I	ND	85	89	4.6	81	87	7.1	40 - 140	30	
Endosulfan II	ND	83	80	3.7	85	95	11.1	40 - 140	30	
Endosulfan sulfate	ND	75	79	5.2	81	90	10.5	40 - 140	30	
Endrin	ND	81	82	1.2	82	91	10.4	40 - 140	30	
Endrin aldehyde	ND	80	78	2.5	85	93	9.0	40 - 140	30	
Endrin ketone	ND	83	86	3.6	86	95	9.9	40 - 140	30	
g-BHC	ND	84	88	4.7	86	92	6.7	40 - 140	30	
g-Chlordane	ND	85	89	4.6	80	88	9.5	40 - 140	30	
Heptachlor	ND	87	90	3.4	84	91	8.0	40 - 140	30	
Heptachlor epoxide	ND	84	88	4.7	81	88	8.3	40 - 140	30	
Methoxychlor	ND	76	81	6.4	88	101	13.8	40 - 140	30	
Toxaphene	ND	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	57	66	70	5.9	68	80	16.2	30 - 150	30	
% TCMX	71	83	87	4.7	76	84	10.0	30 - 150	30	

QA/QC Batch 261716, QC Sample No: BF84396 (BF85154 (56X) , BF85156 (50X) , BF85158, BF85190, BF85191 (50X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	112	112	0.0	99	101	2.0	70 - 130	30	
1,1,1-Trichloroethane	ND	108	106	1.9	113	107	5.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	100	101	1.0	126	141	11.2	70 - 130	30	m
1,1,2-Trichloroethane	ND	108	104	3.8	95	90	5.4	70 - 130	30	
1,1-Dichloroethane	ND	103	106	2.9	97	104	7.0	70 - 130	30	
1,1-Dichloroethene	ND	103	109	5.7	92	100	8.3	70 - 130	30	
1,1-Dichloropropene	ND	112	103	8.4	100	93	7.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	111	107	3.7	99	93	6.3	70 - 130	30	
1,2,3-Trichloropropane	ND	107	90	17.3	125	118	5.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	113	109	3.6	97	92	5.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	116	115	0.9	95	96	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	111	103	7.5	104	108	3.8	70 - 130	30	
1,2-Dibromoethane	ND	113	105	7.3	91	85	6.8	70 - 130	30	
1,2-Dichlorobenzene	ND	107	105	1.9	78	77	1.3	70 - 130	30	

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloroethane	ND	111	102	8.5	106	93	13.1	70 - 130	30	
1,2-Dichloropropane	ND	103	105	1.9	97	95	2.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	110	110	0.0	104	105	1.0	70 - 130	30	
1,3-Dichlorobenzene	ND	109	107	1.9	81	83	2.4	70 - 130	30	
1,3-Dichloropropane	ND	106	106	0.0	104	102	1.9	70 - 130	30	
1,4-Dichlorobenzene	ND	110	108	1.8	80	81	1.2	70 - 130	30	
2,2-Dichloropropane	ND	106	111	4.6	94	99	5.2	70 - 130	30	
2-Chlorotoluene	ND	111	110	0.9	103	107	3.8	70 - 130	30	
2-Hexanone	ND	115	111	3.5	55	47	15.7	70 - 130	30	m
2-Isopropyltoluene	ND	111	110	0.9	90	92	2.2	70 - 130	30	
4-Chlorotoluene	ND	109	110	0.9	98	96	2.1	70 - 130	30	
4-Methyl-2-pentanone	ND	117	114	2.6	88	74	17.3	70 - 130	30	
Acetone	ND	105	110	4.7	86	86	0.0	70 - 130	30	
Acrylonitrile	ND	98	98	0.0	78	74	5.3	70 - 130	30	
Benzene	ND	105	100	4.9	97	93	4.2	70 - 130	30	
Bromobenzene	ND	107	106	0.9	109	106	2.8	70 - 130	30	
Bromochloromethane	ND	98	101	3.0	98	95	3.1	70 - 130	30	
Bromodichloromethane	ND	114	112	1.8	101	98	3.0	70 - 130	30	
Bromoform	ND	120	115	4.3	90	88	2.2	70 - 130	30	
Bromomethane	ND	102	112	9.3	73	83	12.8	70 - 130	30	
Carbon Disulfide	ND	108	112	3.6	85	92	7.9	70 - 130	30	
Carbon tetrachloride	ND	121	108	11.4	110	100	9.5	70 - 130	30	
Chlorobenzene	ND	108	107	0.9	92	91	1.1	70 - 130	30	
Chloroethane	ND	108	114	5.4	96	101	5.1	70 - 130	30	
Chloroform	ND	101	102	1.0	98	98	0.0	70 - 130	30	
Chloromethane	ND	112	109	2.7	82	84	2.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	106	108	1.9	96	102	6.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	109	109	0.0	90	86	4.5	70 - 130	30	
Dibromochloromethane	ND	118	117	0.9	104	103	1.0	70 - 130	30	
Dibromomethane	ND	108	107	0.9	100	94	6.2	70 - 130	30	
Dichlorodifluoromethane	ND	123	127	3.2	82	88	7.1	70 - 130	30	
Ethylbenzene	ND	107	105	1.9	103	101	2.0	70 - 130	30	
Hexachlorobutadiene	ND	115	114	0.9	113	106	6.4	70 - 130	30	
Isopropylbenzene	ND	117	113	3.5	121	126	4.0	70 - 130	30	
m&p-Xylene	ND	109	106	2.8	107	105	1.9	70 - 130	30	
Methyl ethyl ketone	ND	107	105	1.9	75	60	22.2	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	105	103	1.9	106	100	5.8	70 - 130	30	
Methylene chloride	ND	97	101	4.0	116	118	1.7	70 - 130	30	
Naphthalene	ND	105	108	2.8	95	93	2.1	70 - 130	30	
n-Butylbenzene	ND	120	118	1.7	75	77	2.6	70 - 130	30	
n-Propylbenzene	ND	122	120	1.7	110	110	0.0	70 - 130	30	
o-Xylene	ND	115	113	1.8	102	101	1.0	70 - 130	30	
p-Isopropyltoluene	ND	115	114	0.9	89	91	2.2	70 - 130	30	
sec-Butylbenzene	ND	111	110	0.9	94	95	1.1	70 - 130	30	
Styrene	ND	112	111	0.9	79	78	1.3	70 - 130	30	
tert-Butylbenzene	ND	114	113	0.9	105	107	1.9	70 - 130	30	
Tetrachloroethene	ND	111	112	0.9	97	100	3.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	97	94	3.1	104	91	13.3	70 - 130	30	
Toluene	ND	107	104	2.8	100	95	5.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	104	109	4.7	93	97	4.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	116	112	3.5	94	89	5.5	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	112	112	0.0	112	104	7.4	70 - 130	30	
Trichloroethene	ND	107	102	4.8	94	94	0.0	70 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Trichlorofluoromethane	ND	111	117	5.3	96	105	9.0	70 - 130	30
Trichlorotrifluoroethane	ND	107	112	4.6	97	104	7.0	70 - 130	30
Vinyl chloride	ND	110	116	5.3	87	92	5.6	70 - 130	30
% 1,2-dichlorobenzene-d4	101	101	99	2.0	98	101	3.0	70 - 130	30
% Bromofluorobenzene	95	101	98	3.0	89	97	8.6	70 - 130	30
% Dibromofluoromethane	92	103	101	2.0	107	102	4.8	70 - 130	30
% Toluene-d8	93	101	101	0.0	97	95	2.1	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 261899, QC Sample No: BF84588 (BF85155 (50X))

Volatiles - Soil

Naphthalene	ND	116	117	0.9	107	108	0.9	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 261626, QC Sample No: BF84816 (BF85157)

Pesticides - Ground Water

4,4' -DDD	ND	120	131	8.8				40 - 140	20
4,4' -DDE	ND	110	119	7.9				40 - 140	20
4,4' -DDT	ND	118	128	8.1				40 - 140	20
a-BHC	ND	99	109	9.6				40 - 140	20
a-Chlordane	ND	103	112	8.4				40 - 140	20
Alachlor	ND	NA	NA	NC				40 - 140	20
Aldrin	ND	90	98	8.5				40 - 140	20
b-BHC	ND	100	108	7.7				40 - 140	20
Chlordane	ND	NA	NA	NC				40 - 140	20
d-BHC	ND	90	98	8.5				40 - 140	20
Dieldrin	ND	107	117	8.9				40 - 140	20
Endosulfan I	ND	101	111	9.4				40 - 140	20
Endosulfan II	ND	108	117	8.0				40 - 140	20
Endosulfan sulfate	ND	110	119	7.9				40 - 140	20
Endrin	ND	114	123	7.6				40 - 140	20
Endrin aldehyde	ND	114	125	9.2				40 - 140	20
Endrin ketone	ND	123	136	10.0				40 - 140	20
g-BHC	ND	101	110	8.5				40 - 140	20
g-Chlordane	ND	101	110	8.5				40 - 140	20
Heptachlor	ND	97	105	7.9				40 - 140	20
Heptachlor epoxide	ND	103	113	9.3				40 - 140	20
Methoxychlor	ND	126	139	9.8				40 - 140	20
Toxaphene	ND	NA	NA	NC				40 - 140	20
% DCBP	77	88	95	7.7				30 - 150	20
% TCMX	73	80	85	6.1				30 - 150	20

Comment:

A LCS and LCS duplicate were performed instead of a matrix spike and matrix spike duplicate, unless otherwise noted. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane.

QA/QC Batch 261780, QC Sample No: BF84945 (BF85157, BF85189)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	103	101	2.0	103	101	2.0	70 - 130	30
1,1,1-Trichloroethane	ND	97	101	4.0	110	112	1.8	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	98	90	8.5	87	91	4.5	70 - 130	30
1,1,2-Trichloroethane	ND	96	95	1.0	105	105	0.0	70 - 130	30
1,1-Dichloroethane	ND	91	97	6.4	106	108	1.9	70 - 130	30

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Dichloroethene	ND	95	99	4.1	115	116	0.9	70 - 130	30	
1,1-Dichloropropene	ND	97	97	0.0	112	113	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	98	104	5.9	114	134	16.1	70 - 130	30	m
1,2,3-Trichloropropane	ND	104	100	3.9	91	92	1.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	92	99	7.3	127	132	3.9	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	108	104	3.8	107	105	1.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	93	97	4.2	122	114	6.8	70 - 130	30	
1,2-Dibromoethane	ND	101	96	5.1	109	107	1.9	70 - 130	30	
1,2-Dichlorobenzene	ND	91	95	4.3	103	101	2.0	70 - 130	30	
1,2-Dichloroethane	ND	92	92	0.0	103	104	1.0	70 - 130	30	
1,2-Dichloropropane	ND	96	95	1.0	103	104	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	107	101	5.8	103	103	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	96	94	2.1	102	100	2.0	70 - 130	30	
1,3-Dichloropropane	ND	96	97	1.0	98	99	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	96	96	0.0	103	100	3.0	70 - 130	30	
2,2-Dichloropropane	ND	86	88	2.3	85	86	1.2	70 - 130	30	
2-Chlorotoluene	ND	104	99	4.9	100	98	2.0	70 - 130	30	
2-Hexanone	ND	104	105	1.0	102	101	1.0	70 - 130	30	
2-Isopropyltoluene	ND	98	99	1.0	109	107	1.9	70 - 130	30	
4-Chlorotoluene	ND	103	97	6.0	99	98	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	107	104	2.8	110	110	0.0	70 - 130	30	
Acetone	ND	94	92	2.2	131	126	3.9	70 - 130	30	m
Acrylonitrile	ND	93	97	4.2	103	111	7.5	70 - 130	30	
Benzene	ND	94	95	1.1	108	107	0.9	70 - 130	30	
Bromobenzene	ND	101	94	7.2	95	94	1.1	70 - 130	30	
Bromochloromethane	ND	90	93	3.3	104	107	2.8	70 - 130	30	
Bromodichloromethane	ND	95	94	1.1	105	105	0.0	70 - 130	30	
Bromoform	ND	104	99	4.9	108	105	2.8	70 - 130	30	
Bromomethane	ND	97	100	3.0	53	63	17.2	70 - 130	30	m
Carbon Disulfide	ND	91	95	4.3	113	116	2.6	70 - 130	30	
Carbon tetrachloride	ND	100	99	1.0	112	114	1.8	70 - 130	30	
Chlorobenzene	ND	95	96	1.0	103	101	2.0	70 - 130	30	
Chloroethane	ND	94	100	6.2	108	108	0.0	70 - 130	30	
Chloroform	ND	91	95	4.3	104	105	1.0	70 - 130	30	
Chloromethane	ND	109	109	0.0	107	103	3.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	94	97	3.1	>150	>150	NC	70 - 130	30	m
cis-1,3-Dichloropropene	ND	97	95	2.1	103	105	1.9	70 - 130	30	
Dibromochloromethane	ND	103	101	2.0	101	104	2.9	70 - 130	30	
Dibromomethane	ND	96	94	2.1	104	104	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	108	111	2.7	94	98	4.2	70 - 130	30	
Ethylbenzene	ND	94	96	2.1	111	107	3.7	70 - 130	30	
Hexachlorobutadiene	ND	84	94	11.2	122	118	3.3	70 - 130	30	
Isopropylbenzene	ND	110	100	9.5	100	100	0.0	70 - 130	30	
m&p-Xylene	ND	95	98	3.1	113	108	4.5	70 - 130	30	
Methyl ethyl ketone	ND	88	90	2.2	96	97	1.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	90	91	1.1	111	114	2.7	70 - 130	30	
Methylene chloride	ND	80	84	4.9	90	94	4.3	70 - 130	30	
Naphthalene	ND	100	112	11.3	139	>150	NC	70 - 130	30	m
n-Butylbenzene	ND	100	104	3.9	117	114	2.6	70 - 130	30	
n-Propylbenzene	ND	112	105	6.5	101	100	1.0	70 - 130	30	
o-Xylene	ND	98	101	3.0	115	109	5.4	70 - 130	30	
p-Isopropyltoluene	ND	104	104	0.0	113	111	1.8	70 - 130	30	
sec-Butylbenzene	ND	101	100	1.0	110	109	0.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Styrene	ND	95	98	3.1	115	109	5.4	70 - 130	30	
tert-Butylbenzene	ND	106	103	2.9	108	107	0.9	70 - 130	30	
Tetrachloroethene	ND	99	97	2.0	123	121	1.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	88	90	2.2	101	102	1.0	70 - 130	30	
Toluene	ND	96	95	1.0	109	106	2.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	95	102	7.1	117	102	13.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	98	96	2.1	104	105	1.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	110	96	13.6	81	84	3.6	70 - 130	30	
Trichloroethene	ND	98	97	1.0	142	139	2.1	70 - 130	30	m
Trichlorofluoromethane	ND	91	95	4.3	108	111	2.7	70 - 130	30	
Trichlorotrifluoroethane	ND	84	85	1.2	98	101	3.0	70 - 130	30	
Vinyl chloride	ND	100	109	8.6	107	117	8.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	103	95	98	3.1	102	102	0.0	70 - 130	30	
% Bromofluorobenzene	101	96	101	5.1	107	106	0.9	70 - 130	30	
% Dibromofluoromethane	102	96	98	2.1	103	107	3.8	70 - 130	30	
% Toluene-d8	102	100	100	0.0	102	101	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 261499, QC Sample No: BF85147 (BF85150)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	79	82	3.7	90	86	4.5	30 - 130	30	
1,2,4-Trichlorobenzene	ND	77	80	3.8	98	95	3.1	30 - 130	30	
1,2-Dichlorobenzene	ND	80	82	2.5	98	95	3.1	30 - 130	30	
1,2-Diphenylhydrazine	ND	87	90	3.4	98	98	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	79	83	4.9	95	92	3.2	30 - 130	30	
1,4-Dichlorobenzene	ND	78	83	6.2	95	92	3.2	30 - 130	30	
2,4,5-Trichlorophenol	ND	94	96	2.1	108	105	2.8	30 - 130	30	
2,4,6-Trichlorophenol	ND	93	93	0.0	110	107	2.8	30 - 130	30	
2,4-Dichlorophenol	ND	84	85	1.2	98	97	1.0	30 - 130	30	
2,4-Dimethylphenol	ND	58	57	1.7	72	69	4.3	30 - 130	30	
2,4-Dinitrophenol	ND	28	12	80.0	18	11	48.3	30 - 130	30	l,m,r
2,4-Dinitrotoluene	ND	90	94	4.3	103	103	0.0	30 - 130	30	
2,6-Dinitrotoluene	ND	91	93	2.2	104	102	1.9	30 - 130	30	
2-Chloronaphthalene	ND	87	90	3.4	111	108	2.7	30 - 130	30	
2-Chlorophenol	ND	82	85	3.6	94	94	0.0	30 - 130	30	
2-Methylnaphthalene	ND	79	81	2.5	90	87	3.4	30 - 130	30	
2-Methylphenol (o-cresol)	ND	78	79	1.3	93	94	1.1	30 - 130	30	
2-Nitroaniline	ND	113	130	14.0	147	148	0.7	30 - 130	30	m
2-Nitrophenol	ND	81	81	0.0	102	102	0.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	82	82	0.0	94	94	0.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	143	>150	NC	124	132	6.3	30 - 130	30	l,m
3-Nitroaniline	ND	95	108	12.8	112	113	0.9	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	71	52	30.9	102	103	1.0	30 - 130	30	r
4-Bromophenyl phenyl ether	ND	93	91	2.2	94	92	2.2	30 - 130	30	
4-Chloro-3-methylphenol	ND	86	87	1.2	86	88	2.3	30 - 130	30	
4-Chloroaniline	ND	69	80	14.8	84	84	0.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	88	91	3.4	102	101	1.0	30 - 130	30	
4-Nitroaniline	ND	89	93	4.4	105	104	1.0	30 - 130	30	
4-Nitrophenol	ND	83	92	10.3	>150	>150	NC	30 - 130	30	m
Acenaphthene	ND	85	86	1.2	108	106	1.9	30 - 130	30	
Acenaphthylene	ND	88	91	3.4	108	106	1.9	30 - 130	30	
Acetophenone	ND	88	91	3.4	107	106	0.9	30 - 130	30	

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Aniline	ND	101	106	4.8	90	90	0.0	30 - 130	30	
Anthracene	ND	89	92	3.3	113	110	2.7	30 - 130	30	
Benz(a)anthracene	ND	92	91	1.1	108	106	1.9	30 - 130	30	
Benzidine	ND	31	45	36.8	<5	5.1	NC	30 - 130	30	m,r
Benzo(a)pyrene	ND	84	87	3.5	95	94	1.1	30 - 130	30	
Benzo(b)fluoranthene	ND	93	93	0.0	110	108	1.8	30 - 130	30	
Benzo(ghi)perylene	ND	85	89	4.6	105	103	1.9	30 - 130	30	
Benzo(k)fluoranthene	ND	96	94	2.1	107	106	0.9	30 - 130	30	
Benzyl butyl phthalate	ND	95	86	9.9	141	141	0.0	30 - 130	30	m
Bis(2-chloroethoxy)methane	ND	81	83	2.4	102	98	4.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	79	80	1.3	90	88	2.2	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	79	82	3.7	94	95	1.1	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	99	89	10.6	124	122	1.6	30 - 130	30	
Carbazole	ND	93	101	8.2	>150	>150	NC	30 - 130	30	m
Chrysene	ND	90	91	1.1	107	106	0.9	30 - 130	30	
Dibenz(a,h)anthracene	ND	86	90	4.5	104	103	1.0	30 - 130	30	
Dibenzofuran	ND	86	90	4.5	105	103	1.9	30 - 130	30	
Diethyl phthalate	ND	91	91	0.0	99	98	1.0	30 - 130	30	
Dimethylphthalate	ND	90	91	1.1	104	104	0.0	30 - 130	30	
Di-n-butylphthalate	ND	94	92	2.2	125	122	2.4	30 - 130	30	
Di-n-octylphthalate	ND	94	92	2.2	96	95	1.0	30 - 130	30	
Fluoranthene	ND	88	93	5.5	>150	143	NC	30 - 130	30	m
Fluorene	ND	89	92	3.3	106	104	1.9	30 - 130	30	
Hexachlorobenzene	ND	96	92	4.3	102	98	4.0	30 - 130	30	
Hexachlorobutadiene	ND	80	83	3.7	100	92	8.3	30 - 130	30	
Hexachlorocyclopentadiene	ND	71	78	9.4	45	45	0.0	30 - 130	30	
Hexachloroethane	ND	78	82	5.0	97	96	1.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	86	90	4.5	104	102	1.9	30 - 130	30	
Isophorone	ND	87	89	2.3	112	107	4.6	30 - 130	30	
Naphthalene	ND	82	86	4.8	101	96	5.1	30 - 130	30	
Nitrobenzene	ND	81	84	3.6	100	100	0.0	30 - 130	30	
N-Nitrosodimethylamine	ND	76	79	3.9	83	80	3.7	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	81	83	2.4	98	98	0.0	30 - 130	30	
N-Nitrosodiphenylamine	ND	92	96	4.3	104	103	1.0	30 - 130	30	
Pentachloronitrobenzene	ND	95	93	2.1	110	106	3.7	30 - 130	30	
Pentachlorophenol	ND	81	69	16.0	>150	>150	NC	30 - 130	30	m
Phenanthrene	ND	91	92	1.1	111	108	2.7	30 - 130	30	
Phenol	ND	85	87	2.3	91	91	0.0	30 - 130	30	
Pyrene	ND	87	93	6.7	145	139	4.2	30 - 130	30	m
Pyridine	ND	65	71	8.8	56	52	7.4	30 - 130	30	
% 2,4,6-Tribromophenol	91	95	91	4.3	103	100	3.0	30 - 130	30	
% 2-Fluorobiphenyl	87	89	88	1.1	112	110	1.8	30 - 130	30	
% 2-Fluorophenol	84	82	81	1.2	88	88	0.0	30 - 130	30	
% Nitrobenzene-d5	86	83	84	1.2	99	98	1.0	30 - 130	30	
% Phenol-d5	88	86	85	1.2	91	91	0.0	30 - 130	30	
% Terphenyl-d14	96	96	100	4.1	152	145	4.7	30 - 130	30	m

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 261789, QC Sample No: BF85149 (BF85151, BF85152)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	107	106	0.9	96	94	2.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1-Trichloroethane	ND	101	101	0.0	94	95	1.1	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	94	90	4.3	89	91	2.2	70 - 130	30
1,1,2-Trichloroethane	ND	102	99	3.0	94	95	1.1	70 - 130	30
1,1-Dichloroethane	ND	101	100	1.0	80	84	4.9	70 - 130	30
1,1-Dichloroethene	ND	100	101	1.0	93	90	3.3	70 - 130	30
1,1-Dichloropropene	ND	100	105	4.9	106	105	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	101	101	0.0	96	99	3.1	70 - 130	30
1,2,3-Trichloropropane	ND	99	93	6.3	88	91	3.4	70 - 130	30
1,2,4-Trichlorobenzene	ND	100	101	1.0	98	102	4.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	103	106	2.9	99	99	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	102	95	7.1	86	91	5.6	70 - 130	30
1,2-Dibromoethane	ND	103	99	4.0	93	96	3.2	70 - 130	30
1,2-Dichlorobenzene	ND	100	101	1.0	97	99	2.0	70 - 130	30
1,2-Dichloroethane	ND	99	97	2.0	92	94	2.2	70 - 130	30
1,2-Dichloropropane	ND	101	99	2.0	94	95	1.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	100	103	3.0	100	100	0.0	70 - 130	30
1,3-Dichlorobenzene	ND	102	103	1.0	102	102	0.0	70 - 130	30
1,3-Dichloropropane	ND	100	99	1.0	97	96	1.0	70 - 130	30
1,4-Dichlorobenzene	ND	100	102	2.0	100	101	1.0	70 - 130	30
2,2-Dichloropropane	ND	108	109	0.9	92	94	2.2	70 - 130	30
2-Chlorotoluene	ND	101	104	2.9	101	101	0.0	70 - 130	30
2-Hexanone	ND	108	100	7.7	87	88	1.1	70 - 130	30
2-Isopropyltoluene	ND	101	104	2.9	102	102	0.0	70 - 130	30
4-Chlorotoluene	ND	99	104	4.9	102	102	0.0	70 - 130	30
4-Methyl-2-pentanone	ND	108	102	5.7	93	96	3.2	70 - 130	30
Acetone	ND	113	93	19.4	76	81	6.4	70 - 130	30
Acrylonitrile	ND	103	94	9.1	83	87	4.7	70 - 130	30
Benzene	ND	101	100	1.0	96	98	2.1	70 - 130	30
Bromobenzene	ND	100	103	3.0	101	102	1.0	70 - 130	30
Bromochloromethane	ND	99	97	2.0	96	100	4.1	70 - 130	30
Bromodichloromethane	ND	101	99	2.0	89	90	1.1	70 - 130	30
Bromoform	ND	103	99	4.0	87	85	2.3	70 - 130	30
Bromomethane	ND	108	99	8.7	82	88	7.1	70 - 130	30
Carbon Disulfide	ND	101	100	1.0	79	78	1.3	70 - 130	30
Carbon tetrachloride	ND	105	105	0.0	85	90	5.7	70 - 130	30
Chlorobenzene	ND	101	104	2.9	100	100	0.0	70 - 130	30
Chloroethane	ND	108	105	2.8	89	91	2.2	70 - 130	30
Chloroform	ND	99	97	2.0	91	93	2.2	70 - 130	30
Chloromethane	ND	112	110	1.8	93	92	1.1	70 - 130	30
cis-1,2-Dichloroethene	ND	103	101	2.0	95	97	2.1	70 - 130	30
cis-1,3-Dichloropropene	ND	102	101	1.0	92	92	0.0	70 - 130	30
Dibromochloromethane	ND	106	103	2.9	92	92	0.0	70 - 130	30
Dibromomethane	ND	101	94	7.2	94	93	1.1	70 - 130	30
Dichlorodifluoromethane	ND	120	129	7.2	93	91	2.2	70 - 130	30
Ethylbenzene	ND	97	100	3.0	99	101	2.0	70 - 130	30
Hexachlorobutadiene	ND	100	107	6.8	106	109	2.8	70 - 130	30
Isopropylbenzene	ND	102	106	3.8	104	104	0.0	70 - 130	30
m&p-Xylene	ND	99	101	2.0	100	100	0.0	70 - 130	30
Methyl ethyl ketone	ND	116	102	12.8	93	99	6.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	101	96	5.1	98	101	3.0	70 - 130	30
Methylene chloride	ND	95	93	2.1	85	85	0.0	70 - 130	30
Naphthalene	ND	101	99	2.0	92	96	4.3	70 - 130	30
n-Butylbenzene	ND	98	104	5.9	99	101	2.0	70 - 130	30

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
n-Propylbenzene	ND	106	112	5.5	101	102	1.0	70 - 130	30
o-Xylene	ND	100	101	1.0	102	102	0.0	70 - 130	30
p-Isopropyltoluene	ND	100	105	4.9	102	103	1.0	70 - 130	30
sec-Butylbenzene	ND	99	104	4.9	101	102	1.0	70 - 130	30
Styrene	ND	97	99	2.0	101	100	1.0	70 - 130	30
tert-Butylbenzene	ND	103	107	3.8	102	102	0.0	70 - 130	30
Tetrachloroethene	ND	101	108	6.7	108	108	0.0	70 - 130	30
Tetrahydrofuran (THF)	ND	94	85	10.1	87	90	3.4	70 - 130	30
Toluene	ND	100	101	1.0	98	98	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	99	97	2.0	89	91	2.2	70 - 130	30
trans-1,3-Dichloropropene	ND	103	100	3.0	88	89	1.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	106	103	2.9	84	87	3.5	70 - 130	30
Trichloroethene	ND	103	105	1.9	101	103	2.0	70 - 130	30
Trichlorofluoromethane	ND	103	104	1.0	87	83	4.7	70 - 130	30
Trichlorotrifluoroethane	ND	98	104	5.9	81	70	14.6	70 - 130	30
Vinyl chloride	ND	107	109	1.9	95	92	3.2	70 - 130	30
% 1,2-dichlorobenzene-d4	99	100	99	1.0	98	100	2.0	70 - 130	30
% Bromofluorobenzene	97	99	98	1.0	100	99	1.0	70 - 130	30
% Dibromofluoromethane	97	99	99	0.0	100	98	2.0	70 - 130	30
% Toluene-d8	101	98	99	1.0	97	96	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 261617, QC Sample No: BF85153 (BF85150, BF85153 (71, 1X) , BF85154, BF85156)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	105	106	0.9	103	99	4.0	70 - 130	30
1,1,1-Trichloroethane	ND	110	103	6.6	102	93	9.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	92	92	0.0	99	101	2.0	70 - 130	30
1,1,2-Trichloroethane	ND	104	99	4.9	105	93	12.1	70 - 130	30
1,1-Dichloroethane	ND	101	105	3.9	96	98	2.1	70 - 130	30
1,1-Dichloroethene	ND	102	106	3.8	90	94	4.3	70 - 130	30
1,1-Dichloropropene	ND	108	96	11.8	107	94	12.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	94	90	4.3	98	95	3.1	70 - 130	30
1,2,3-Trichloropropane	ND	103	101	2.0	95	85	11.1	70 - 130	30
1,2,4-Trichlorobenzene	ND	86	81	6.0	95	90	5.4	70 - 130	30
1,2,4-Trimethylbenzene	ND	107	103	3.8	103	102	1.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	103	99	4.0	102	92	10.3	70 - 130	30
1,2-Dibromoethane	ND	104	98	5.9	103	96	7.0	70 - 130	30
1,2-Dichlorobenzene	ND	98	94	4.2	99	97	2.0	70 - 130	30
1,2-Dichloroethane	ND	105	97	7.9	101	90	11.5	70 - 130	30
1,2-Dichloropropane	ND	101	100	1.0	101	97	4.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	105	102	2.9	104	103	1.0	70 - 130	30
1,3-Dichlorobenzene	ND	93	90	3.3	97	97	0.0	70 - 130	30
1,3-Dichloropropane	ND	99	102	3.0	99	99	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	95	92	3.2	98	97	1.0	70 - 130	30
2,2-Dichloropropane	ND	100	101	1.0	91	91	0.0	70 - 130	30
2-Chlorotoluene	ND	102	100	2.0	101	102	1.0	70 - 130	30
2-Hexanone	ND	105	103	1.9	84	86	2.4	70 - 130	30
2-Isopropyltoluene	ND	109	104	4.7	107	105	1.9	70 - 130	30
4-Chlorotoluene	ND	98	93	5.2	101	100	1.0	70 - 130	30
4-Methyl-2-pentanone	ND	110	106	3.7	98	92	6.3	70 - 130	30
Acetone	ND	91	96	5.3	72	71	1.4	70 - 130	30
Acrylonitrile	ND	95	101	6.1	95	95	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzene	ND	102	96	6.1	104	93	11.2	70 - 130	30	
Bromobenzene	ND	102	97	5.0	101	101	0.0	70 - 130	30	
Bromochloromethane	ND	102	97	5.0	100	93	7.3	70 - 130	30	
Bromodichloromethane	ND	109	105	3.7	104	97	7.0	70 - 130	30	
Bromoform	ND	111	108	2.7	99	96	3.1	70 - 130	30	
Bromomethane	ND	100	112	11.3	72	80	10.5	70 - 130	30	
Carbon Disulfide	ND	104	109	4.7	89	91	2.2	70 - 130	30	
Carbon tetrachloride	ND	120	100	18.2	108	90	18.2	70 - 130	30	
Chlorobenzene	ND	101	98	3.0	100	98	2.0	70 - 130	30	
Chloroethane	ND	106	112	5.5	101	98	3.0	70 - 130	30	
Chloroform	ND	103	101	2.0	99	94	5.2	70 - 130	30	
Chloromethane	ND	111	114	2.7	96	93	3.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	101	106	4.8	102	100	2.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	101	99	2.0	103	97	6.0	70 - 130	30	
Dibromochloromethane	ND	108	110	1.8	101	99	2.0	70 - 130	30	
Dibromomethane	ND	101	99	2.0	101	93	8.2	70 - 130	30	
Dichlorodifluoromethane	ND	130	132	1.5	94	94	0.0	70 - 130	30	l
Ethylbenzene	ND	100	97	3.0	104	101	2.9	70 - 130	30	
Hexachlorobutadiene	ND	108	104	3.8	108	107	0.9	70 - 130	30	
Isopropylbenzene	ND	112	109	2.7	108	108	0.0	70 - 130	30	
m&p-Xylene	ND	100	97	3.0	101	99	2.0	70 - 130	30	
Methyl ethyl ketone	ND	102	97	5.0	85	81	4.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	101	99	2.0	98	92	6.3	70 - 130	30	
Methylene chloride	ND	97	98	1.0	97	99	2.0	70 - 130	30	
Naphthalene	ND	101	101	0.0	97	101	4.0	70 - 130	30	
n-Butylbenzene	ND	106	99	6.8	105	104	1.0	70 - 130	30	
n-Propylbenzene	ND	114	106	7.3	105	105	0.0	70 - 130	30	
o-Xylene	ND	109	103	5.7	105	100	4.9	70 - 130	30	
p-Isopropyltoluene	ND	107	101	5.8	107	105	1.9	70 - 130	30	
sec-Butylbenzene	ND	109	103	5.7	108	105	2.8	70 - 130	30	
Styrene	ND	103	100	3.0	101	98	3.0	70 - 130	30	
tert-Butylbenzene	ND	114	109	4.5	108	106	1.9	70 - 130	30	
Tetrachloroethene	ND	104	101	2.9	104	104	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	96	90	6.5	100	89	11.6	70 - 130	30	
Toluene	ND	102	98	4.0	104	97	7.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	100	103	3.0	93	99	6.3	70 - 130	30	
trans-1,3-Dichloropropene	ND	105	101	3.9	103	96	7.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	98	98	0.0	94	99	5.2	70 - 130	30	
Trichloroethene	ND	108	102	5.7	103	97	6.0	70 - 130	30	
Trichlorofluoromethane	ND	109	114	4.5	61	67	9.4	70 - 130	30	m
Trichlorotrifluoroethane	ND	104	110	5.6	96	97	1.0	70 - 130	30	
Vinyl chloride	ND	110	114	3.6	97	98	1.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	101	101	0.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	95	99	97	2.0	97	96	1.0	70 - 130	30	
% Dibromofluoromethane	100	106	97	8.9	102	95	7.1	70 - 130	30	
% Toluene-d8	92	101	97	4.0	102	99	3.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

QA/QC Batch 261553, QC Sample No: BF85153 (BF85151, BF85152, BF85153, BF85154, BF85155, BF85156, BF85158, BF85159)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	91	90	1.1	85	86	1.2	30 - 130	30
1,2,4-Trichlorobenzene	ND	94	90	4.3	91	94	3.2	30 - 130	30

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichlorobenzene	ND	96	88	8.7	87	91	4.5	30 - 130	30	
1,2-Diphenylhydrazine	ND	93	89	4.4	88	96	8.7	30 - 130	30	
1,3-Dichlorobenzene	ND	92	86	6.7	87	88	1.1	30 - 130	30	
1,4-Dichlorobenzene	ND	92	85	7.9	87	89	2.3	30 - 130	30	
2,4,5-Trichlorophenol	ND	99	94	5.2	93	98	5.2	30 - 130	30	
2,4,6-Trichlorophenol	ND	102	97	5.0	97	93	4.2	30 - 130	30	
2,4-Dichlorophenol	ND	99	90	9.5	91	88	3.4	30 - 130	30	
2,4-Dimethylphenol	ND	69	62	10.7	67	63	6.2	30 - 130	30	
2,4-Dinitrophenol	ND	6.6	<5	NC	<5	<5	NC	30 - 130	30	l,m
2,4-Dinitrotoluene	ND	101	90	11.5	89	98	9.6	30 - 130	30	
2,6-Dinitrotoluene	ND	99	95	4.1	96	97	1.0	30 - 130	30	
2-Chloronaphthalene	ND	102	97	5.0	104	105	1.0	30 - 130	30	
2-Chlorophenol	ND	90	84	6.9	88	86	2.3	30 - 130	30	
2-Methylnaphthalene	ND	92	88	4.4	88	89	1.1	30 - 130	30	
2-Methylphenol (o-cresol)	ND	93	84	10.2	87	87	0.0	30 - 130	30	
2-Nitroaniline	ND	141	127	10.4	128	>150	NC	30 - 130	30	l,m
2-Nitrophenol	ND	97	86	12.0	94	92	2.2	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	94	84	11.2	87	86	1.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	>150	143	NC	125	127	1.6	30 - 130	30	l
3-Nitroaniline	ND	123	113	8.5	104	111	6.5	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	56	49	13.3	24	38	45.2	30 - 130	30	m,r
4-Bromophenyl phenyl ether	ND	101	99	2.0	93	83	11.4	30 - 130	30	
4-Chloro-3-methylphenol	ND	94	88	6.6	81	81	0.0	30 - 130	30	
4-Chloroaniline	ND	104	91	13.3	82	79	3.7	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	100	98	2.0	93	95	2.1	30 - 130	30	
4-Nitroaniline	ND	102	93	9.2	98	99	1.0	30 - 130	30	
4-Nitrophenol	ND	112	96	15.4	90	131	37.1	30 - 130	30	m,r
Acenaphthene	ND	101	96	5.1	103	102	1.0	30 - 130	30	
Acenaphthylene	ND	101	96	5.1	101	103	2.0	30 - 130	30	
Acetophenone	ND	106	96	9.9	99	100	1.0	30 - 130	30	
Aniline	ND	113	105	7.3	95	89	6.5	30 - 130	30	
Anthracene	ND	102	98	4.0	109	108	0.9	30 - 130	30	
Benz(a)anthracene	ND	100	96	4.1	106	104	1.9	30 - 130	30	
Benzidine	ND	86	78	9.8	32	22	37.0	30 - 130	30	m,r
Benzo(a)pyrene	ND	94	90	4.3	93	91	2.2	30 - 130	30	
Benzo(b)fluoranthene	ND	108	107	0.9	111	107	3.7	30 - 130	30	
Benzo(ghi)perylene	ND	75	75	0.0	99	101	2.0	30 - 130	30	
Benzo(k)fluoranthene	ND	107	100	6.8	101	100	1.0	30 - 130	30	
Benzyl butyl phthalate	ND	105	94	11.1	134	137	2.2	30 - 130	30	m
Bis(2-chloroethoxy)methane	ND	98	92	6.3	96	96	0.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	81	77	5.1	82	80	2.5	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	86	80	7.2	86	89	3.4	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	103	98	5.0	120	120	0.0	30 - 130	30	
Carbazole	ND	140	132	5.9	>150	>150	NC	30 - 130	30	l,m
Chrysene	ND	107	98	8.8	105	102	2.9	30 - 130	30	
Dibenz(a,h)anthracene	ND	77	78	1.3	96	100	4.1	30 - 130	30	
Dibenzofuran	ND	103	94	9.1	95	98	3.1	30 - 130	30	
Diethyl phthalate	ND	99	92	7.3	90	93	3.3	30 - 130	30	
Dimethylphthalate	ND	100	94	6.2	99	98	1.0	30 - 130	30	
Di-n-butylphthalate	ND	102	98	4.0	124	120	3.3	30 - 130	30	
Di-n-octylphthalate	ND	101	95	6.1	85	90	5.7	30 - 130	30	
Fluoranthene	ND	114	112	1.8	>150	141	NC	30 - 130	30	m
Fluorene	ND	102	98	4.0	96	101	5.1	30 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Hexachlorobenzene	ND	99	98	1.0	100	99	1.0	30 - 130	30	
Hexachlorobutadiene	ND	98	93	5.2	95	97	2.1	30 - 130	30	
Hexachlorocyclopentadiene	ND	80	75	6.5	43	36	17.7	30 - 130	30	
Hexachloroethane	ND	99	87	12.9	90	92	2.2	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	77	77	0.0	97	100	3.0	30 - 130	30	
Isophorone	ND	110	98	11.5	103	103	0.0	30 - 130	30	
Naphthalene	ND	97	92	5.3	95	97	2.1	30 - 130	30	
Nitrobenzene	ND	101	89	12.6	92	94	2.2	30 - 130	30	
N-Nitrosodimethylamine	ND	84	79	6.1	76	77	1.3	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	95	86	9.9	88	91	3.4	30 - 130	30	
N-Nitrosodiphenylamine	ND	102	99	3.0	92	102	10.3	30 - 130	30	
Pentachloronitrobenzene	ND	103	97	6.0	106	105	0.9	30 - 130	30	
Pentachlorophenol	ND	88	74	17.3	101	102	1.0	30 - 130	30	
Phenanthrene	ND	103	100	3.0	112	108	3.6	30 - 130	30	
Phenol	ND	87	83	4.7	85	82	3.6	30 - 130	30	
Pyrene	ND	119	114	4.3	>150	136	NC	30 - 130	30	m
Pyridine	ND	79	69	13.5	65	64	1.6	30 - 130	30	
% 2,4,6-Tribromophenol	95	100	103	3.0	105	90	15.4	30 - 130	30	
% 2-Fluorobiphenyl	98	102	100	2.0	107	110	2.8	30 - 130	30	
% 2-Fluorophenol	84	82	82	0.0	82	77	6.3	30 - 130	30	
% Nitrobenzene-d5	93	96	89	7.6	92	93	1.1	30 - 130	30	
% Phenol-d5	86	84	83	1.2	85	80	6.1	30 - 130	30	
% Terphenyl-d14	111	136	132	3.0	175	146	18.1	30 - 130	30	l,m

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 261551, QC Sample No: BF85156 (BF85155, BF85156, BF85158, BF85159)

Pesticides - Soil

4,4' -DDD	ND	96	102	6.1	104	107	2.8	40 - 140	30
4,4' -DDE	ND	94	96	2.1	88	101	13.8	40 - 140	30
4,4' -DDT	ND	80	88	9.5	91	104	13.3	40 - 140	30
a-BHC	ND	89	87	2.3	74	85	13.8	40 - 140	30
a-Chlordane	ND	92	92	0.0	78	88	12.0	40 - 140	30
Alachlor	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	100	98	2.0	85	95	11.1	40 - 140	30
b-BHC	ND	81	80	1.2	68	83	19.9	40 - 140	30
Chlordane	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
d-BHC	ND	101	98	3.0	88	94	6.6	40 - 140	30
Dieldrin	ND	89	88	1.1	76	88	14.6	40 - 140	30
Endosulfan I	ND	84	84	0.0	67	77	13.9	40 - 140	30
Endosulfan II	ND	82	91	10.4	80	89	10.7	40 - 140	30
Endosulfan sulfate	ND	80	93	15.0	85	99	15.2	40 - 140	30
Endrin	ND	83	88	5.8	82	96	15.7	40 - 140	30
Endrin aldehyde	ND	74	88	17.3	81	92	12.7	40 - 140	30
Endrin ketone	ND	91	97	6.4	95	102	7.1	40 - 140	30
g-BHC	ND	91	88	3.4	80	88	9.5	40 - 140	30
g-Chlordane	ND	95	101	6.1	84	95	12.3	40 - 140	30
Heptachlor	ND	75	74	1.3	69	73	5.6	40 - 140	30
Heptachlor epoxide	ND	90	90	0.0	78	89	13.2	40 - 140	30
Methoxychlor	ND	75	78	3.9	108	98	9.7	40 - 140	30
Toxaphene	ND	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	71	77	83	7.5	66	75	12.8	30 - 150	30

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% TCMX	80	92	92	0.0	75	84	11.3	30 - 150	30	
QA/QC Batch 261500, QC Sample No: BF85156 (BF85150, BF85151, BF85152, BF85153, BF85154, BF85155, BF85156, BF85158, BF85159)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	70	75	6.9	79			40 - 140	30	
PCB-1221	ND							40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	68	67	1.5	89			40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	85	81	86	6.0	90			30 - 150	30	
% TCMX (Surrogate Rec)	104	103	107	3.8	106			30 - 150	30	
QA/QC Batch 261812, QC Sample No: BF85267 (BF85155, BF85159)										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	99	101	2.0	93	96	3.2	70 - 130	30	
1,1,1-Trichloroethane	ND	97	97	0.0	81	96	16.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	99	92	7.3	106	100	5.8	70 - 130	30	
1,1,2-Trichloroethane	ND	101	93	8.2	89	94	5.5	70 - 130	30	
1,1-Dichloroethane	ND	98	98	0.0	83	98	16.6	70 - 130	30	
1,1-Dichloroethene	ND	97	94	3.1	89	103	14.6	70 - 130	30	
1,1-Dichloropropene	ND	98	105	6.9	92	105	13.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	106	102	3.8	65	63	3.1	70 - 130	30	m
1,2,3-Trichloropropane	ND	103	97	6.0	102	96	6.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	106	104	1.9	70	73	4.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	108	110	1.8	101	104	2.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	110	105	4.7	109	110	0.9	70 - 130	30	
1,2-Dibromoethane	ND	105	101	3.9	90	95	5.4	70 - 130	30	
1,2-Dichlorobenzene	ND	99	99	0.0	91	90	1.1	70 - 130	30	
1,2-Dichloroethane	ND	99	96	3.1	80	87	8.4	70 - 130	30	
1,2-Dichloropropane	ND	103	104	1.0	98	103	5.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	103	106	2.9	104	105	1.0	70 - 130	30	
1,3-Dichlorobenzene	ND	100	101	1.0	91	92	1.1	70 - 130	30	
1,3-Dichloropropane	ND	111	104	6.5	104	101	2.9	70 - 130	30	
1,4-Dichlorobenzene	ND	100	102	2.0	92	90	2.2	70 - 130	30	
2,2-Dichloropropane	ND	100	102	2.0	74	89	18.4	70 - 130	30	
2-Chlorotoluene	ND	104	107	2.8	105	106	0.9	70 - 130	30	
2-Hexanone	ND	121	109	10.4	80	76	5.1	70 - 130	30	
2-Isopropyltoluene	ND	104	107	2.8	104	108	3.8	70 - 130	30	
4-Chlorotoluene	ND	103	103	0.0	101	102	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	117	107	8.9	92	93	1.1	70 - 130	30	
Acetone	ND	87	94	7.7	74	88	17.3	70 - 130	30	
Acrylonitrile	ND	96	92	4.3	83	87	4.7	70 - 130	30	
Benzene	ND	98	101	3.0	98	103	5.0	70 - 130	30	
Bromobenzene	ND	102	100	2.0	100	100	0.0	70 - 130	30	
Bromochloromethane	ND	95	96	1.0	90	97	7.5	70 - 130	30	
Bromodichloromethane	ND	97	98	1.0	86	93	7.8	70 - 130	30	
Bromoform	ND	104	97	7.0	92	89	3.3	70 - 130	30	
Bromomethane	ND	123	95	25.7	109	112	2.7	70 - 130	30	
Carbon Disulfide	ND	91	89	2.2	78	94	18.6	70 - 130	30	

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Carbon tetrachloride	ND	94	99	5.2	80	95	17.1	70 - 130	30
Chlorobenzene	ND	98	100	2.0	95	97	2.1	70 - 130	30
Chloroethane	ND	107	98	8.8	90	98	8.5	70 - 130	30
Chloroform	ND	101	100	1.0	79	96	19.4	70 - 130	30
Chloromethane	ND	122	102	17.9	95	99	4.1	70 - 130	30
cis-1,2-Dichloroethene	ND	100	99	1.0	89	102	13.6	70 - 130	30
cis-1,3-Dichloropropene	ND	107	105	1.9	91	98	7.4	70 - 130	30
Dibromochloromethane	ND	105	101	3.9	94	97	3.1	70 - 130	30
Dibromomethane	ND	100	98	2.0	93	95	2.1	70 - 130	30
Dichlorodifluoromethane	ND	108	119	9.7	78	93	17.5	70 - 130	30
Ethylbenzene	ND	98	101	3.0	99	102	3.0	70 - 130	30
Hexachlorobutadiene	ND	100	104	3.9	75	83	10.1	70 - 130	30
Isopropylbenzene	ND	107	113	5.5	115	115	0.0	70 - 130	30
m&p-Xylene	ND	100	104	3.9	97	102	5.0	70 - 130	30
Methyl ethyl ketone	ND	109	97	11.7	75	77	2.6	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	98	91	7.4	93	95	2.1	70 - 130	30
Methylene chloride	ND	94	93	1.1	90	99	9.5	70 - 130	30
Naphthalene	ND	115	109	5.4	82	82	0.0	70 - 130	30
n-Butylbenzene	ND	103	108	4.7	93	100	7.3	70 - 130	30
n-Propylbenzene	ND	107	115	7.2	106	110	3.7	70 - 130	30
o-Xylene	ND	101	104	2.9	100	104	3.9	70 - 130	30
p-Isopropyltoluene	ND	104	110	5.6	103	108	4.7	70 - 130	30
sec-Butylbenzene	ND	101	106	4.8	103	108	4.7	70 - 130	30
Styrene	ND	100	100	0.0	93	94	1.1	70 - 130	30
tert-Butylbenzene	ND	107	112	4.6	107	113	5.5	70 - 130	30
Tetrachloroethene	ND	98	107	8.8	99	107	7.8	70 - 130	30
Tetrahydrofuran (THF)	ND	107	97	9.8	95	100	5.1	70 - 130	30
Toluene	ND	97	101	4.0	92	102	10.3	70 - 130	30
trans-1,2-Dichloroethene	ND	96	98	2.1	87	102	15.9	70 - 130	30
trans-1,3-Dichloropropene	ND	103	101	2.0	87	93	6.7	70 - 130	30
trans-1,4-dichloro-2-butene	ND	106	99	6.8	98	92	6.3	70 - 130	30
Trichloroethene	ND	100	104	3.9	96	102	6.1	70 - 130	30
Trichlorofluoromethane	ND	100	95	5.1	82	94	13.6	70 - 130	30
Trichlorotrifluoroethane	ND	95	98	3.1	88	103	15.7	70 - 130	30
Vinyl chloride	ND	109	110	0.9	89	104	15.5	70 - 130	30
% 1,2-dichlorobenzene-d4	102	99	99	0.0	98	97	1.0	70 - 130	30
% Bromofluorobenzene	94	100	101	1.0	91	94	3.2	70 - 130	30
% Dibromofluoromethane	104	103	97	6.0	101	101	0.0	70 - 130	30
% Toluene-d8	102	98	100	2.0	93	100	7.3	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-200%.

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
December 12, 2013

QA/QC Data

SDG I.D.: GBF85150

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Thursday, December 12, 2013

Requested Criteria: None

State: NY

Sample Criteria Exceedences Report

GBF85150 - AEAS-INC

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.

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

December 12, 2013

SDG I.D.: GBF85150

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

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

Temp Pg of

Data Delivery:
☐ Fax #:
☒ Email: info@aeasinc.com

Customer: American Environmental Assessment and Solutions Inc.
Address: 679 Lafayette Avenue, 3rd Floor Brooklyn, NY 11216

Project: 874 Willoughby Avenue
Report to: Eugene
Invoice to: American Environmental

Project P.O: 13-0219
Phone #: 718-209-0653
Fax #: 718-906-4090

Client Sample - Information - Identification

Sampler's Signature: Eugene Kuka Date: 12/4/13

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs by EPA Method 8260B	SVOCs by EPA Method 8270C	PCBs-EPA Method 8082	Pesticides-EPA Method 8081A	TAL Metals-EPA Method 6020	Soil VOA [X] Methanol [ ] S. Bisulfate [X] H2O	GL Soil container (6) oz	GL Soil container (4) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
85150	SB-2 (0-2)	Soil	12/4/13	1:44pm	→	→	→	→	→	2	1								
85151	SB-2 (10-12)	Soil	12/4/13	1:53pm	→	→	→	→	→	2	1								
85152	SB-3 (0-2)	Soil	12/4/13	12:35pm	→	→	→	→	→	2	1								
85153	SB-3 (10-12)	Soil	12/4/13	12:44pm	→	→	→	→	→	2	1								
85154	SB-4 (0-2)	Soil	12/4/13	1:03pm	→	→	→	→	→	2	1								
85155	SB-4 (10-12)	Soil	12/4/13	1:12pm	→	→	→	→	→	2	1								
85156	SB-2 (10-12) Duplicate	Soil	12/4/13	1:53pm	→	→	→	→	→	2	1								
85157	SB-2/MW-2	GW	12/4/13	3:50pm	→	→	→	→	→				2	2		D	1		
85158	SB-6 (0-2)	Soil	12/4/13	11:20am	→	→	→	→	→	2	1								
85159	SB-6 (10-12)	Soil	12/4/13	11:32am	→	→	→	→	→	2	1								
85189*	TB water																		
85190	TB LL																		

Relinquished by:	Accepted by:	Date:	Time:
Eugene Kuka	[signature]	12/5/13	12:05
[signature]	[signature]	12/5/13	
		12/5/13	1645

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
☐ TOGS GA GW
☐ CP-51 Soil
☐ NY375 Unrestricted Soil
☐ NY375 Residential Soil
☐ NY375 Restricted Non-Residential Soil

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

Comments, Special Requirements or Regulations:

*Rcvd (1) water T.B 3 (1) L.L. 3 (1) HL TB. (TB)

* TB HL = 85191

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

NY # 11301

Analysis Report

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		12/06/13	15:43
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86256
Phoenix ID: BF86256

Project ID: 874 WILLOUGHBY
Client ID: SV-5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	1
1,1,1-Trichloroethane	16.5	*0.183*	90.0	*1.00*	12/10/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trimethylbenzene	2.38	*0.204*	11.7	*1.00*	12/10/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	12/10/13	KCA	TO15	
1,3,5-Trimethylbenzene	0.83	*0.204*	4.08	*1.00*	12/10/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	12/10/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Ethyltoluene	1.44	*0.204*	7.07	*1.00*	12/10/13	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.43	*0.244*	1.76	*1.00*	12/10/13	KCA	TO15	
Acetone	18.4	*0.421*	43.7	*1.00*	12/10/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	12/10/13	KCA	TO15	
Benzene	2.73	*0.313*	8.72	*1.00*	12/10/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY
Client ID: SV-5

Phoenix I.D.: BF86256

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	12/10/13	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	12/10/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	12/10/13	KCA	TO15	
Carbon Disulfide	2.19	*0.321*	6.81	*1.00*	12/10/13	KCA	TO15	
Carbon Tetrachloride	ND	*0.040*	ND	*0.25*	12/10/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroform	0.92	*0.205*	4.49	*1.00*	12/10/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	12/10/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Cyclohexane	0.37	*0.291*	1.27	*1.00*	12/10/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	12/10/13	KCA	TO15	
Dichlorodifluoromethane	2.22	*0.202*	11.0	*1.00*	12/10/13	KCA	TO15	
Ethanol	5.54	*0.531*	10.4	*1.00*	12/10/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	1
Ethylbenzene	7.76	*0.230*	33.7	*1.00*	12/10/13	KCA	TO15	
Heptane	2.35	*0.244*	9.62	*1.00*	12/10/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	12/10/13	KCA	TO15	
Hexane	2.25	*0.284*	7.92	*1.00*	12/10/13	KCA	TO15	
Isopropylalcohol	ND	*0.407*	ND	*1.00*	12/10/13	KCA	TO15	
Isopropylbenzene	0.45	*0.204*	2.21	*1.00*	12/10/13	KCA	TO15	
m,p-Xylene	20.1	*0.230*	87.2	*1.00*	12/10/13	KCA	TO15	
Methyl Ethyl Ketone	2.17	*0.339*	6.40	*1.00*	12/10/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
Methylene Chloride	ND	*0.288*	ND	*1.00*	12/10/13	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
o-Xylene	6.38	*0.230*	27.7	*1.00*	12/10/13	KCA	TO15	
Propylene	3.09	*0.581*	5.31	*1.00*	12/10/13	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
Styrene	28.4	*0.235*	121	*1.00*	12/10/13	KCA	TO15	
Tetrachloroethene	11.9	*0.037*	80.7	*0.25*	12/10/13	KCA	TO15	
Tetrahydrofuran	3.16	*0.339*	9.31	*1.00*	12/10/13	KCA	TO15	1
Toluene	32.6	*0.266*	123	*1.00*	12/10/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Trichloroethene	0.09	*0.047*	0.483	*0.25*	12/10/13	KCA	TO15	
Trichlorofluoromethane	12	*0.178*	67.4	*1.00*	12/10/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	12/10/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	106	%	106	%	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY

Client ID: SV-5

Phoenix I.D.: BF86256

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

December 16, 2013

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		12/06/13	16:14
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86256
Phoenix ID: BF86257

Project ID: 874 WILLOUGHBY
Client ID: SV-2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	12/10/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trimethylbenzene	1.96	*0.204*	9.63	*1.00*	12/10/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	12/10/13	KCA	TO15	
1,3,5-Trimethylbenzene	ND	*0.204*	ND	*1.00*	12/10/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	12/10/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Ethyltoluene	ND	*0.204*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Isopropyltoluene	1.4	*0.182*	7.68	*1.00*	12/10/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	2.97	*0.244*	12.2	*1.00*	12/10/13	KCA	TO15	
Acetone	29.5	*0.421*	70.0	*1.00*	12/10/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	12/10/13	KCA	TO15	
Benzene	3.62	*0.313*	11.6	*1.00*	12/10/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY
Client ID: SV-2

Phoenix I.D.: BF86257

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	12/10/13	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	12/10/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	12/10/13	KCA	TO15	
Carbon Disulfide	1.79	*0.321*	5.57	*1.00*	12/10/13	KCA	TO15	
Carbon Tetrachloride	ND	*0.040*	ND	*0.25*	12/10/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	12/10/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	12/10/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Cyclohexane	0.52	*0.291*	1.79	*1.00*	12/10/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	12/10/13	KCA	TO15	
Dichlorodifluoromethane	0.4	*0.202*	1.98	*1.00*	12/10/13	KCA	TO15	
Ethanol	3.17	*0.531*	5.97	*1.00*	12/10/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	1
Ethylbenzene	9.43	*0.230*	40.9	*1.00*	12/10/13	KCA	TO15	
Heptane	2.98	*0.244*	12.2	*1.00*	12/10/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	12/10/13	KCA	TO15	
Hexane	3.49	*0.284*	12.3	*1.00*	12/10/13	KCA	TO15	
Isopropylalcohol	ND	*0.407*	ND	*1.00*	12/10/13	KCA	TO15	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	12/10/13	KCA	TO15	
m,p-Xylene	21	*0.230*	91.1	*1.00*	12/10/13	KCA	TO15	
Methyl Ethyl Ketone	2.73	*0.339*	8.05	*1.00*	12/10/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
Methylene Chloride	ND	*0.288*	ND	*1.00*	12/10/13	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
o-Xylene	7.66	*0.230*	33.2	*1.00*	12/10/13	KCA	TO15	
Propylene	10.7	*0.581*	18.4	*1.00*	12/10/13	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
Styrene	24.9	*0.235*	106	*1.00*	12/10/13	KCA	TO15	
Tetrachloroethene	24.2	*0.037*	164	*0.25*	12/10/13	KCA	TO15	
Tetrahydrofuran	3.56	*0.339*	10.5	*1.00*	12/10/13	KCA	TO15	1
Toluene	57.2	*0.266*	215	*1.00*	12/10/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Trichloroethene	1.86	*0.047*	9.99	*0.25*	12/10/13	KCA	TO15	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	12/10/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	12/10/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	103	*%*	103	*%*	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY

Client ID: SV-2

Phoenix I.D.: BF86257

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

December 16, 2013

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		12/06/13	12:30
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86256
Phoenix ID: BF86258

Project ID: 874 WILLOUGHBY
Client ID: SV-4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	1
1,1,1-Trichloroethane	0.24	*0.183*	1.31	*1.00*	12/10/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trimethylbenzene	1.68	*0.204*	8.25	*1.00*	12/10/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	12/10/13	KCA	TO15	
1,3,5-Trimethylbenzene	0.5	*0.204*	2.46	*1.00*	12/10/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	12/10/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Ethyltoluene	0.72	*0.204*	3.54	*1.00*	12/10/13	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	12/10/13	KCA	TO15	
Acetone	6.35	*0.421*	15.1	*1.00*	12/10/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	12/10/13	KCA	TO15	
Benzene	1.37	*0.313*	4.37	*1.00*	12/10/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY
Client ID: SV-4

Phoenix I.D.: BF86258

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	12/10/13	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	12/10/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	12/10/13	KCA	TO15	
Carbon Disulfide	1.55	*0.321*	4.82	*1.00*	12/10/13	KCA	TO15	
Carbon Tetrachloride	0.04	*0.040*	0.251	*0.25*	12/10/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroform	0.34	*0.205*	1.66	*1.00*	12/10/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	12/10/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Cyclohexane	0.46	*0.291*	1.58	*1.00*	12/10/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	12/10/13	KCA	TO15	
Dichlorodifluoromethane	0.6	*0.202*	2.96	*1.00*	12/10/13	KCA	TO15	
Ethanol	4.28	*0.531*	8.06	*1.00*	12/10/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	1
Ethylbenzene	2.46	*0.230*	10.7	*1.00*	12/10/13	KCA	TO15	
Heptane	0.68	*0.244*	2.78	*1.00*	12/10/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	12/10/13	KCA	TO15	
Hexane	0.96	*0.284*	3.38	*1.00*	12/10/13	KCA	TO15	
Isopropylalcohol	ND	*0.407*	ND	*1.00*	12/10/13	KCA	TO15	
Isopropylbenzene	ND	*0.204*	ND	*1.00*	12/10/13	KCA	TO15	
m,p-Xylene	7.5	*0.230*	32.5	*1.00*	12/10/13	KCA	TO15	
Methyl Ethyl Ketone	ND	*0.339*	ND	*1.00*	12/10/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
Methylene Chloride	ND	*0.288*	ND	*1.00*	12/10/13	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
o-Xylene	2.38	*0.230*	10.3	*1.00*	12/10/13	KCA	TO15	
Propylene	4.51	*0.581*	7.76	*1.00*	12/10/13	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
Styrene	7.56	*0.235*	32.2	*1.00*	12/10/13	KCA	TO15	
Tetrachloroethene	6.37	*0.037*	43.2	*0.25*	12/10/13	KCA	TO15	
Tetrahydrofuran	ND	*0.339*	ND	*1.00*	12/10/13	KCA	TO15	1
Toluene	8.94	*0.266*	33.7	*1.00*	12/10/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Trichloroethene	0.05	*0.047*	0.268	*0.25*	12/10/13	KCA	TO15	
Trichlorofluoromethane	0.48	*0.178*	2.70	*1.00*	12/10/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	12/10/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	102	*%*	102	*%*	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY

Client ID: SV-4

Phoenix I.D.: BF86258

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

December 16, 2013

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		12/06/13	15:40
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86256
Phoenix ID: BF86259

Project ID: 874 WILLOUGHBY
Client ID: SV-3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	1
1,1,1-Trichloroethane	5.05	*0.183*	27.5	*1.00*	12/10/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trimethylbenzene	2.91	*0.204*	14.3	*1.00*	12/10/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	12/10/13	KCA	TO15	
1,3,5-Trimethylbenzene	1	*0.204*	4.91	*1.00*	12/10/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	12/10/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Ethyltoluene	1.36	*0.204*	6.68	*1.00*	12/10/13	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.35	*0.244*	1.43	*1.00*	12/10/13	KCA	TO15	
Acetone	15.9	*0.421*	37.7	*1.00*	12/10/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	12/10/13	KCA	TO15	
Benzene	2.23	*0.313*	7.12	*1.00*	12/10/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY
Client ID: SV-3

Phoenix I.D.: BF86259

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	12/10/13	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	12/10/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	12/10/13	KCA	TO15	
Carbon Disulfide	1.15	*0.321*	3.58	*1.00*	12/10/13	KCA	TO15	
Carbon Tetrachloride	0.04	*0.040*	0.251	*0.25*	12/10/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	12/10/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	12/10/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Cyclohexane	ND	*0.291*	ND	*1.00*	12/10/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	12/10/13	KCA	TO15	
Dichlorodifluoromethane	1.72	*0.202*	8.50	*1.00*	12/10/13	KCA	TO15	
Ethanol	8.84	*0.531*	16.6	*1.00*	12/10/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	1
Ethylbenzene	8.34	*0.230*	36.2	*1.00*	12/10/13	KCA	TO15	
Heptane	2.21	*0.244*	9.05	*1.00*	12/10/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	12/10/13	KCA	TO15	
Hexane	2.03	*0.284*	7.15	*1.00*	12/10/13	KCA	TO15	
Isopropylalcohol	ND	*0.407*	ND	*1.00*	12/10/13	KCA	TO15	
Isopropylbenzene	0.45	*0.204*	2.21	*1.00*	12/10/13	KCA	TO15	
m,p-Xylene	21.3	*0.230*	92.4	*1.00*	12/10/13	KCA	TO15	
Methyl Ethyl Ketone	1.44	*0.339*	4.24	*1.00*	12/10/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
Methylene Chloride	ND	*0.288*	ND	*1.00*	12/10/13	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
o-Xylene	6.76	*0.230*	29.3	*1.00*	12/10/13	KCA	TO15	
Propylene	1.29	*0.581*	2.22	*1.00*	12/10/13	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
Styrene	26.1	*0.235*	111	*1.00*	12/10/13	KCA	TO15	
Tetrachloroethene	18.3	*0.037*	124	*0.25*	12/10/13	KCA	TO15	
Tetrahydrofuran	1.78	*0.339*	5.25	*1.00*	12/10/13	KCA	TO15	1
Toluene	36.3	*0.266*	137	*1.00*	12/10/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Trichloroethene	0.13	*0.047*	0.698	*0.25*	12/10/13	KCA	TO15	
Trichlorofluoromethane	0.7	*0.178*	3.93	*1.00*	12/10/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	12/10/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	105	*%*	105	*%*	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY

Client ID: SV-3

Phoenix I.D.: BF86259

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

December 16, 2013

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

December 16, 2013

FOR: Attn: Ms. Antoinette Ollivierre
American Env. Assessment & Solutions Inc
679 Lafayette Ave.
3rd Floor
Brooklyn, NY 11216

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:		12/06/13	16:17
Location Code:	AEAS-INC	Received by:	SW	12/09/13	16:56
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF86256
Phoenix ID: BF86260

Project ID: 874 WILLOUGHBY
Client ID: SV-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Volatiles (TO15)								
1,1,1,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	1
1,1,1-Trichloroethane	0.26	*0.183*	1.42	*1.00*	12/10/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	12/10/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	12/10/13	KCA	TO15	
1,2,4-Trimethylbenzene	1.59	*0.204*	7.81	*1.00*	12/10/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	12/10/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	12/10/13	KCA	TO15	
1,3,5-Trimethylbenzene	0.62	*0.204*	3.05	*1.00*	12/10/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	12/10/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	12/10/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Ethyltoluene	1.05	*0.204*	5.16	*1.00*	12/10/13	KCA	TO15	1
4-Isopropyltoluene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	12/10/13	KCA	TO15	
Acetone	17.8	*0.421*	42.2	*1.00*	12/10/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	12/10/13	KCA	TO15	
Benzene	2.94	*0.313*	9.39	*1.00*	12/10/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY
Client ID: SV-1

Phoenix I.D.: BF86260

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	12/10/13	KCA	TO15	
Bromoform	ND	*0.097*	ND	*1.00*	12/10/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	12/10/13	KCA	TO15	
Carbon Disulfide	1.61	*0.321*	5.01	*1.00*	12/10/13	KCA	TO15	
Carbon Tetrachloride	0.05	*0.040*	0.314	*0.25*	12/10/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	12/10/13	KCA	TO15	
Chloroform	3.76	*0.205*	18.3	*1.00*	12/10/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	12/10/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Cyclohexane	0.61	*0.291*	2.10	*1.00*	12/10/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	12/10/13	KCA	TO15	
Dichlorodifluoromethane	0.33	*0.202*	1.63	*1.00*	12/10/13	KCA	TO15	
Ethanol	8.7	*0.531*	16.4	*1.00*	12/10/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	1
Ethylbenzene	8.87	*0.230*	38.5	*1.00*	12/10/13	KCA	TO15	
Heptane	2.83	*0.244*	11.6	*1.00*	12/10/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	12/10/13	KCA	TO15	
Hexane	2.84	*0.284*	10.0	*1.00*	12/10/13	KCA	TO15	
Isopropylalcohol	ND	*0.407*	ND	*1.00*	12/10/13	KCA	TO15	
Isopropylbenzene	0.44	*0.204*	2.16	*1.00*	12/10/13	KCA	TO15	
m,p-Xylene	20.4	*0.230*	88.5	*1.00*	12/10/13	KCA	TO15	
Methyl Ethyl Ketone	2.42	*0.339*	7.13	*1.00*	12/10/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	12/10/13	KCA	TO15	
Methylene Chloride	ND	*0.288*	ND	*1.00*	12/10/13	KCA	TO15	
n-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
o-Xylene	6.39	*0.230*	27.7	*1.00*	12/10/13	KCA	TO15	
Propylene	ND	*0.581*	ND	*1.00*	12/10/13	KCA	TO15	1
sec-Butylbenzene	ND	*0.182*	ND	*1.00*	12/10/13	KCA	TO15	1
Styrene	27.8	*0.235*	118	*1.00*	12/10/13	KCA	TO15	
Tetrachloroethene	21.9	*0.037*	148	*0.25*	12/10/13	KCA	TO15	
Tetrahydrofuran	2.76	*0.339*	8.13	*1.00*	12/10/13	KCA	TO15	1
Toluene	44.2	*0.266*	166	*1.00*	12/10/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	12/10/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	12/10/13	KCA	TO15	
Trichloroethene	0.09	*0.047*	0.483	*0.25*	12/10/13	KCA	TO15	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	12/10/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	12/10/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	12/10/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	103	*%*	103	*%*	12/10/13	KCA	TO15	

Project ID: 874 WILLOUGHBY

Client ID: SV-1

Phoenix I.D.: BF86260

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	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 Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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

December 16, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

December 16, 2013

QA/QC Data

SDG I.D.: GBF86256

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 261902, QC Sample No: BF85916 (BF86256, BF86257, BF86258, BF86259, BF86260)										
Volatiles										
1,1,1,2-Tetrachloroethane	ND	ND	123	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	132	1.85	1.80	0.34	0.33	3.0	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	100	2.70	2.75	0.55	0.56	1.8	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	97	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,3-Butadiene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
4-Ethyltoluene	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
4-Isopropyltoluene	ND	ND	106	ND	ND	ND	ND	NC	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Acetone	ND	ND	108	9.52	9.23	4.01	3.89	3.0	70 - 130	20
Acrylonitrile	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	84	1.37	ND	0.43	ND	NC	70 - 130	20
Benzyl chloride	ND	ND	115	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	124	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
Carbon Tetrachloride	ND	ND	111	0.503	0.566	0.08	0.09	11.8	70 - 130	20
Chlorobenzene	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	103	1.51	1.56	0.31	0.32	3.2	70 - 130	20
Chloromethane	ND	ND	101	1.03	ND	0.5	ND	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	111	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	113	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Dibromochloromethane	ND	ND	113	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	105	2.47	2.32	0.5	0.47	6.2	70 - 130	20
Ethanol	ND	ND	108	18.8	19.4	10	10.3	3.0	70 - 130	20

QA/QC Data

SDG I.D.: GBF86256

Parameter	Blank ppbv	Blank ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	ND	114	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	ND	110	0.998	1.13	0.23	0.26	12.2	70 - 130	20
Heptane	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Hexachlorobutadiene	ND	ND	84	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
Isopropylalcohol	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Isopropylbenzene	ND	ND	111	ND	ND	ND	ND	NC	70 - 130	20
m,p-Xylene	ND	ND	110	3.04	3.08	0.7	0.71	1.4	70 - 130	20
Methyl Ethyl Ketone	ND	ND	110	ND	ND	ND	ND	NC	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	ND	92	2.88	3.05	0.83	0.88	5.8	70 - 130	20
n-Butylbenzene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
o-Xylene	ND	ND	107	ND	ND	ND	ND	NC	70 - 130	20
Propylene	ND	ND	105	2.24	2.25	1.3	1.31	0.8	70 - 130	20
sec-Butylbenzene	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
Styrene	ND	ND	122	ND	ND	ND	ND	NC	70 - 130	20
Tetrachloroethene	ND	ND	108	0.542	0.542	0.08	0.08	0.0	70 - 130	20
Tetrahydrofuran	ND	ND	112	ND	ND	ND	ND	NC	70 - 130	20
Toluene	ND	ND	104	2.71	2.75	0.72	0.73	1.4	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	95	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Trichlorofluoromethane	ND	ND	99	1.24	1.18	0.22	0.21	4.7	70 - 130	20
Trichlorotrifluoroethane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	105	105	98	101	102	101	102	1.0	70 - 130	20

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
December 16, 2013

Monday, December 16, 2013

Requested Criteria: None

State: NY

Sample Criteria Exceedences Report

GBF86256 - AEAS-INC

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

WICIP
P.O. # 4oc Page of

Data Delivery:
☐ Fax #: 718-906-4090
☒ Email: info@aeasinc.com
☐ Phone #: 718-209-0653

Report to: Eugene
Customer: American Env. Assess. & Solutions
Address: 679 Lafayette Ave
Brooklyn, NY 11216

Invoice to: American Environmental

Sampled by: Eugene

Project Name: 674 Willoughby
Criteria Requested: Deliverable: RCP ☐ MCP ☐
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	
	~~SV-4~~	11286	6.0	-30		4961	41.6										
86256	SV-5	156	↓	↓	0	5041	↓	1:34	3:43	12/6/13	-28.5	-1					✓
86257	SV-2	11290	↓	↓	0	4497	↓	1:50	4:14	12/6/13	-28	0					✓
86258	SV-4	215	↓	↓	0	2804	(*) ↓	1:10	1:30	12/6/13	-26.8	0					✓
86259	* SV-3	SV-3	6.0		0	~~5202~~	↓	1:16	3:40	12/6/13	-27	0					✓
86260	SV-1	13650	6.0	-30	0	4956	↓	2:02	4:17	12/6/13	-29	0					✓
	6L 2hr																

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	12-9-13	12:05
[signature]	TRO [signature]	12-9-13	16:50

Data Format:
Excel ☒ Equis ☐ GISKey ☐
PDF ☒ Other: ☐

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
E-Designation
* canister rcvd w/o tag. Marked on side (TF)
(*) regulator not rcvd (TF)

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: _____

APPENDIX

SOIL BORING LOGS

American Environmental Assessment & Solutions, Inc.

Mailing:
PO Box 6376
North Babylon, NY 11703

Business:
679 Lafayette Avenue, 3rd Floor
Brooklyn, NY 11216

Telephone: (718) 209-0653 ♦ Fax: (718) 906-4090
Email: info@AEASinc.com
www.AEASinc.com

SOIL BORING LOG

JOB #:	13-0219	PAGE:	1 of 7
LOCATION:	872 - 874 Willoughby Avenue	DATE:	12/6/2013
	Brooklyn, NY	SAMPLING INTERVAL:	2 Feet
BORING #:	SB-1	SAMPLING METHOD:	Split Spoon
DRILLING METHOD:	Geoprobe	DRILLER:	Chuck & Dave/AARCO
TOTAL DEPTH:	65 feet	DEPTH TO WATER:	55 Feet

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2 -4	0.0	SM	Brown to grayish medium grained, silty sand containing gravel and rocks
-6 -8 -10	0.0	SM	Brown to grayish medium grained, silty sand containing gravel and rocks
-12 -14	0.0	SM	Brown to grayish medium grained, silty sand containing rocks
-16 -18 -20			End of boring
-22 -24			
-26 -28 -30			

American Environmental Assessment & Solutions, Inc.

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SOIL BORING LOG

JOB #:	13-0219	PAGE:	2 of 7
LOCATION:	872 - 874 Willoughby Avenue	DATE:	12/4/2013
	Brooklyn, NY	SAMPLING INTERVAL:	2 Feet
BORING #:	SB-2	SAMPLING METHOD:	Split Spoon
DRILLING METHOD:	Geoprobe	DRILLER:	Chuck & Dave/AARCO
TOTAL DEPTH:	65 feet	DEPTH TO WATER:	55 Feet

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2, -4	0.0	SM	Brown to grayish medium grained, silty sand containing gravel and rocks
-6, -8, -10	0.5	SM	Brown to grayish medium grained, silty sand containing gravel and rocks
-12, -14	0.4	SM	Brown medium grained, silty sand containing gravel
-16, -18, -20			End of boring
-22, -24			
-26, -28, -30			

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SOIL BORING LOG

JOB #:	13-0219	PAGE:	3 of 7
LOCATION:	872 - 874 Willoughby Avenue	DATE:	12/4/2013
	Brooklyn, NY	SAMPLING INTERVAL:	2 Feet
BORING #:	SB-3	SAMPLING METHOD:	Split Spoon
DRILLING METHOD:	Geoprobe	DRILLER:	Chuck & Dave/AARCO
TOTAL DEPTH:	15 feet	DEPTH TO WATER:	55 Feet

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2, -4	0.3	SM	Gray medium grained silty sand containing gravel
-6, -8, -10	0.2	SM	Brown to grayish medium grained, silty sand containing gravel
-12, -14	0.0	SM	Brown medium grained silty sand, moist
-16, -18, -20			End of boring
-22, -24			
-26, -28, -30			

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SOIL BORING LOG

JOB #:	13-0219	PAGE:	4 of 7
LOCATION:	872 - 874 Willoughby Avenue	DATE:	12/4/2013
	Brooklyn, NY	SAMPLING INTERVAL:	2 Feet
BORING #:	SB-4	SAMPLING METHOD:	Split Spoon
DRILLING METHOD:	Geoprobe	DRILLER:	Chuck & Dave/AARCO
TOTAL DEPTH:	15 feet	DEPTH TO WATER:	55 Feet

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2, -4	0.0	SM	Blackish-brown medium grained, silty sand containing rocks, bricks and debris
-6, -8, -10	0.8	SM	Blackish-brown medium grained, silty sand containing rocks and debris
-12, -14	64.4	SM	Blackish-brown medium grained, silty sand containing gravel, petroleum odor
-16, -18, -20			End of boring
-22, -24			
-26, -28, -30			

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SOIL BORING LOG

JOB #:	13-0219	PAGE:	5 of 7
LOCATION:	872 - 874 Willoughby Avenue	DATE:	12/6/2013
	Brooklyn, NY	SAMPLING INTERVAL:	2 Feet
BORING #:	SB-5	SAMPLING METHOD:	Split Spoon
DRILLING METHOD:	Geoprobe	DRILLER:	Chuck & Dave/AARCO
TOTAL DEPTH:	65 feet	DEPTH TO WATER:	55 Feet

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2, -4	0.0	SM	Brown to gray medium grained, silty sand containing rocks, and bricks
-6, -8, -10	0.0	SM	Brown to gray medium grained, silty sand containing rocks and bricks
-12, -14	0.0	SM	Brown to gray medium grained, silty sand containing rocks
-16, -18, -20			End of boring
-22, -24			
-26, -28, -30			

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SOIL BORING LOG

JOB #:	13-0219	PAGE:	6 of 7
LOCATION:	872 - 874 Willoughby Avenue	DATE:	12/4/2013
	Brooklyn, NY	SAMPLING INTERVAL:	2 Feet
BORING #:	SB-6	SAMPLING METHOD:	Split Spoon
DRILLING METHOD:	Geoprobe	DRILLER:	Chuck & Dave/AARCO
TOTAL DEPTH:	15 feet	DEPTH TO WATER:	55 Feet

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2 -4	0.0	SM	Brown to gray medium grained, silty sand containing rocks
-6 -8 -10	0.0	SM	Brown to gray medium grained, silty sand containing rocks
-12 -14	0.0	SM	Brown to gray medium grained, silty sand containing rocks and brick
-16 -18 -20			
-22 -24			
-26 -28 -30			

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SOIL BORING LOG

JOB #:	13-0219	PAGE:	7 of 7
LOCATION:	872 - 874 Willoughby Avenue	DATE:	12/6/2013
	Brooklyn, NY	SAMPLING INTERVAL:	2 Feet
BORING #:	SB-7	SAMPLING METHOD:	Split Spoon
DRILLING METHOD:	Geoprobe	DRILLER:	Chuck & Dave/AARCO
TOTAL DEPTH:	65 feet	DEPTH TO WATER:	55 Feet

USCS SYMBOLS

GW - Well Graded Gravel	SW - Well Graded Sand	CH - Inorganic Clay, High Plastic
GP - Poorly Graded Gravel	SP - Poorly Graded Sand	OH - Organic Silt / Clay
GM - Silty Gravel	SM - Silty Sand	PT - Peat / High Organics
GC - Clayey Gravel	SC - Clayey Sand	

DEPTH BELOW GRADE AND LITHOLOGY	PID READING (ppm)	USCS	SOIL DESCRIPTION
0			
-2 -4	0.0	SM	Brown to gray medium grained, silty sand containing gravel
-6 -8 -10	0.0	SM	Brown medium grained, silty sand containing gravel
-12 -14	0.0	SM	Brown to gray medium grained, silty sand containing gravel
-16 -18 -20			
-22 -24			
-26 -28 -30			