REMEDIAL INVESTIGATION REPORT (RIR)

IN ACCORDANCE WITH OER APPROVED WORK PLAN DATED 3/14/2013

FOR
ATLANTIC COLUMBUS, L.P.
1875 ATLANTIC AVENUE
BROOLYN, NY 11233
BLOCK 1713, LOT 7
OER PROJECT NUMBER "13CVCB149K"

E-DESIGNATION E-185
CEQR NUMBER 07DCP070K
BEDFORD STUYVESANT SOUTH REZONING AND TEXT AMENDMENT

PREPARED FOR:

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LIST OF ACRONYMS

Acronym	Definition
ACM	Asbestos Containing Material
AST	Aboveground Storage Tank
BGS	Below Ground Surface
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
LBP	Lead Based Paint
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	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	Registered Architect
RAWP	Remedial Action Work Plan

RCA	Recycled Concrete Aggregate
RCR	Remedial Closure Report
RD	Restrictive Declaration
REC	Recognized Environmental Condition
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

CERTIFICATION

I, Dean Devoe, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the 1875 Atlantic Avenue, Brooklyn, New York (OER PROJECT NUMBER "13CVCB149K). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding the property.

8/2/13 Dean Devoe

Qualified Environmental Professional Date Signature

STATE OF NEW YORK
DEAN E. DEVOE
No. 072513
LICENSED PROFESSIONAL ENGINEER

EXECUTIVE SUMMARY

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

Site Location and Current Usage

The Site is located in the Bedford-Stuyvesant section of Brooklyn, New York and is identified as Block 1713 and Lot 7 on the New York City Tax Map. Figure 1 is a Site location map. The Site is 21,126-square feet and is bounded by 16 Columbus Place (residential building), Herkimer Street to the north, Atlantic Avenue, Long Island Rail Road Trestle to the south, Columbus Place, Mc Donalds Restaurant to the east, and Kane Place, residential buildings to the west. Previously, the Site was used by United Pipe Nipple Co. Inc (cutting and threading of metal piping/fittings and sales to local plumbing shops) and contains manufacturing warehouse and vacant storage area on the northern portion, offices, storage spaces on the southern portion, storage of the finished pipe products on the eastern portion and unused office space on the western portion/mezzanine level. Currently, the property is unused and buildings are vacant.

Please see the enclosed Figure 1: Location Map, which depicts the location of the Property on a street map of Brooklyn, New York.

Summary of Proposed Redevelopment Plan

The proposed project shall be a 9-story, elevator building containing approximately 100-120 affordable residential units and a partial cellar. The ground floor will potentially contain commercial and/or community facility uses in addition to residential uses. Portions of the building that do not contain a cellar are expected to contain a crawl space. The building footprint is expected to be approximately 12,000 – 12,500 square feet with the bottom of the building footings reaching approximately 13 feet to 14 feet deep as measured from the existing grade. Development plans have not been created as the exact location and layout have not reached the design phase yet. There is expected to be a rear yard tenant recreation area and side yard totaling approximately 2,500 - 2,800 square feet and developed with a mix of pavers, poured rubber

safety surface, and/or planted landscaped areas. There is expected to be a paved, off-street parking lot also located in the rear yard and totaling approximately 5,500 - 6,500 square feet. The building may have setbacks in the front façade or be setback 10 feet from the property line along Atlantic Avenue, all of which would also be planted. Demolition of the existing warehouse/light manufacturing buildings will be completed prior to start of construction. The site is currently zoned MX-10 (M1-1/R7D) and R6B.

Please find attached Building Plan in Figure 6.

Summary of Past Uses of Site and Areas of Concern

The subject site has been historically utilized from around 1953 to 2011 as a Pipe Threading Facility.

In summary, the following Areas of Concern (AOCs) were identified during completion of the Phase I Environmental Site Assessment (ESA) dated March 2012.

1. The presence of three (3) gasoline/fuel oil tanks at the subject property (RECs 1 & 2)
2. The property categorization as E-Designated site (REC 3)
3. Poor housekeeping throughout the property (RECs 5 & 6)
4. Historic usage of property as pipe threading facility, with PCB usage (RECs 4 & 7)
5. Historic usage of adjacent property (REC 8)
6. The presence of ACM and LBP at the property (RECs 9 & 10)

The Phase I report was prepared by G C Environmental, Inc for United Pipe Nipple Co.; (Mr. Roger De Simone) dated March 2012. This Phase I indentified ten (10) recognized environmental conditions (RECs) which were considered as Areas of Concerns.

Summary of the Work Performed under the Remedial Investigation

The following work has been performed at the site:

1. Conducted a Site inspection to address AOCs and physical obstructions (i.e. structures, buildings, etc.);

2. Installed sixteen (16) soil borings across the entire project Site, and collected twenty six (26) soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three (3) temporary groundwater monitoring wells throughout the Site to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed five (5) soil vapor probes around Site perimeter and collected five (5) samples for chemical analysis.

Summary of Environmental Findings

1. The general elevation of the property ranges from 69 to 70 feet above mean sea level.
2. Assumed depth to groundwater ranges from 40 to 60 feet below grade at the Site.
3. Assumed groundwater flow is generally towards northwest beneath the Site.
4. Depth to bedrock is approximately 340 feet below grade at the Site.
5. The thickness of the unconsolidated sediment beneath the Site area is approximately 20-40 feet. The map referenced next shows the top of bedrock to be at an elevation of about 280 feet below sea level, which would correspond to a depth of about 340 ft below ground surface.
6. The stratigraphy of the site, from the surface down, consists of urban fill (asphalt, stones/bricks) in a medium clay matrix to approximately 7 to 8 feet below grade. A native medium soil with small proportion of gravel is present below the urban fill throughout the site.
7. Soil/fill samples collected during the RI showed concentrations of TAL Metals detected in SB-1 (0-2 feet), SB-1 (12-14 feet), SB-3 (0-2 feet), SB-8 (0-2 feet), SB-11 (0-2 feet), SB-11 (5-7 feet), SB-15 (0-2 feet), SB-17 (0-2 feet) & SB-17 (12-14 feet); TAL Metals and Pesticides detected in SB-10 (0-2 feet) & SB-10 (12-14 feet); and SVOCs detected in SB-8 (0-2 feet) & SB-11 (0-2 feet) samples were above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) and or NYSDEC CP-51

Soil Cleanup Guidance Values. However, these metals and SVOCs in dissolved state were non detected or detected below groundwater standards in the groundwater samples collected at the same location SB-1/GW-1, SB-8/GW-2 and SB-17/GW-3 samples. The VOCs and B/Ns (pertaining to NYSDEC Spill Closure) in SB-4 (5-10), SB-5 (5-10), SB-6 (5-10), SB-19 (5-10), SB-20 (5-10) and SB-21 (5-7) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values). Based on this GCE recommends no further investigation with respect to TAL Metals and SVOCs in soil.

8. Groundwater samples collected during the RI showed Arsenic (Unfiltered), Cadmium (Unfiltered), Chromium (Unfiltered), Copper (Unfiltered), Iron (Unfiltered), Lead (Unfiltered), Nickel (Unfiltered), Manganese (Unfiltered and Dissolved/filtered) and four (4) SVOCs in SB-1/GW-1 sample. Samples also showed four (4) SVOCs in SB-8/GW-2 sample, and three (3) SVOCs in SB-17/GW-3 sample which were reported to be above the NYSDEC-TOGS Ambient Water Quality Standards. However, no VOCs were detected in down gradient groundwater sample SB-1/GW-1, and VOCs detected in SB-8/GW-2 and SB-17/ GW-3 were below the groundwater standards.

9. Soil vapor samples collected during the RI showed Tetrachloroethene detected below sub-slab NYSDOH standards of 100 ug/m^3 in all the sub- slab soil vapor samples SB-2/Soil Vapor 1, SB-7/Soil Vapor 2, SB-12/Soil Vapor 3, SB-18/Soil Vapor 4 and SB-14/Soil Vapor 5 samples. Carbon tetrachloride was either not detected or detected below sub-slab NYSDOH standards of 5 ug/m^3 in all the sub- slab soil vapor samples SB-2/Soil Vapor 1, SB-7/Soil Vapor 2, SB-12/Soil Vapor 3, SB-18/Soil Vapor 4 and SB-14/Soil Vapor 5 samples. Concentration ranges from Not Detected to 0.377 ug/m^3. Trichloroethene were detected below sub-slab NYSDOH standards of 5 ug/m^3 in sub-slab soil vapor sample SB-14/Soil Vapor 5. In SB-14/Soil Vapor 5, this compound was detected at concentration of 0.376 ug/m^3.

10. A total of twenty-five (25) Asbestos Containing Material (ACM) bulk samples were collected and submitted for laboratory analysis to determine if these materials contained asbestos. Laboratory analysis indicated that the following materials were asbestos containing material:

- aircell insulation
- 9”X9” maroon tile and mastic throughout the first floor.
- 9”X9” pink tile in the second floor bathroom.

The samples were collected 5/14/2013 by a certified NYCDEP asbestos inspector. Approximate quantities of asbestos containing materials are listed below:

- 9”X 9” Maroon Speckled Tile and Mastic-1st Floor; 1350 square feet;
- 9”X 9” Pink Speckled Tile-2nd Floor Bathroom; 40 square feet;
- Aircell Insulation Boiler Room, Hallway, Parts Storage Room - 25 linear feet

11. Based on the findings and visual observation it is presumed that the following surfaces met the definition of Lead Based Paint (LBP):

- 2nd level of First Foyer at entrance Ladder (including the tread, stringer and railings)
- The Main Warehouse “B” Wall/South Wall Dumbwaiter Door (no frame or casing on door)

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Atlantic Columbus, LP has not enrolled in the New York City Voluntary Cleanup Program (NYC VCP). Nonetheless, they have committed to investigate and remediate a 0.48-acre site located at 1875 Atlantic Avenue, Brooklyn, New York. The property is presently vacant. The RI work was performed between May 02, 2013 and May 07, 2013. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 Site Location and Current Usage

The Site is located in the Bedford-Stuyvesant section of Brooklyn, New York and is identified as Block 1713 and Lot 7 on the New York City Tax Map. Figure 1 is a Site location map. The Site is 21,126-square feet and is bounded by 16 Columbus Place (residential building), Herkimer Street to the north, Atlantic Avenue, Long Island Rail Road Trestle to the south, Columbus Place, Mc Donalds Restaurant to the east, and Kane Place, residential buildings to the west. Currently, the property and buildings are vacant (see also pages 8 and 15).

1.2 Proposed Redevelopment Plan

The proposed project shall be a 9-story, elevator building containing approximately 100-120 affordable residential units and a partial cellar. The ground floor will potentially contain commercial and/or community facility uses in addition to residential uses. Portions of the building that do not contain a cellar are expected to contain a crawl space. The building footprint is expected to be approximately 12,000 – 12,500 square feet with the bottom of the building footings reaching approximately 13 feet to 14 feet deep as measured from the existing grade. Development plans have not been created as the exact location and layout has not reached the design phase yet. There is expected to be a rear yard tenant recreation area and side yard totaling approximately 2,500 - 2,800 square feet and developed with a mix of pavers, poured rubber safety surface, and/or planted landscaped areas. There is expected to be a paved, off-

street parking lot also located in the rear yard and totaling approximately 5,500 - 6,500 square feet. The building may have setbacks in the front façade or be setback 10 feet from the property line along Atlantic Avenue, all of which would also be planted. Demolition of the existing warehouse/light manufacturing buildings will be completed prior to construction start. The site is currently zoned MX-10 (M1-1/R7D) and R6B.

*Please note that the above is based on a preliminary concept design. The footprint and overall square footage of the building may change as the concept design progresses.

1.3 Description of Surrounding Property

According to the EDR City Directory dated March 12, 2012, the adjoining properties were used for manufacturing and automotive purposes from at least 1928 to 2005. According to EDR Sanborn maps, the adjoining and surrounding properties were identified as manufacturing and auto repair facilities from at least 1932 to 2007. The presence of properties with these historical uses in the vicinity of the Property is considered to be a *recognized environmental condition.*

2.0 SITE HISTORY

2.1 Past Uses and Ownership

According to the New York City Department of Buildings, the Property is currently owned and operated by the United Pipe Nipple Co. Inc. The Property is located at 1875 Atlantic Avenue in Brooklyn, within the Borough of Brooklyn, New York City. The Property is located within one (1) irregular-shaped parcel, identified by the New York City Building Department as Block 1713, Lot 7. According to New York City Department of Buildings, the additional addresses listed for the Property are 1867-1875 Atlantic Avenue, 18-32 Columbus Place and 21-23 Kane Place. According to the New York City Department of City Planning zoning map 17A, the Property is currently zoned as Industrial and Manufacturing District M1-1. The Property is historically developed with an 18,620 square foot one (1)-story manufacturing structure/warehouse with a mezzanine level. The historic operations on site historically included the cutting and threading of metal piping/fittings and an onsite store for sales to local plumbing supply shops.

According to New York City Building Department online records, the Property structure was erected in 1920 and issued with a certificate of occupancy in 1953 for a Pipe Threading Facility. According to the EDR City Directory report, dated March 12, 2012, the Property is listed as "United Pipe and Nipple Co., Inc." from 1965 to 2005. According to EDR Sanborn maps, dated March 13, 2012, the Property is identified as 'Pipe Warehouse & Threading Inc" from 1963 to 2007. According to Mr. DeSimone, the existing structure was constructed in 1960 and has been used as a Pipe Threading Facility with a warehouse from the date of its construction.

The 1966, 1975, 1984, 1994 and 2006 aerial photographs show the property as developed with the existing building. The 1924 and 1954 aerial photographs show the Property as developed with different multi-family residential buildings. The 1963, 1965, 1978, 1979, 1980, 1982, 1987, 1989, 1991, 1992, 1993, 1994, 1995 and 2001-2007 Sanborn maps listed the Property as Pipe Warehouse & Threading. The 1888 Sanborn map show the Property as residential. The 1908 Sanborn map shows the Property as residential and a plumber shop. The 1932 & 1951 Sanborn maps show the Property as residential and a typewriter key manufacturer.

2.2 Previous Investigations

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

Phase I Environmental Site Assessment, June 2011, prepared by ATC Associates.

Phase I Environmental Site Assessment, March 2012, prepared by G C Environmental, Inc.

Underground Storage Tank Closure Assessment Report, May 2012, prepared by G C Environmental, Inc.

2.3 Site Inspection

G.C. Environmental, Inc (GCE) performed a site inspection of the subject property in order to identify potential recognized environmental conditions which may have impacted the site.

On May 02, 2013, a GPR survey was conducted at the Property for the purpose of marking out any underground utilities at the proposed drilling locations.

On May 14, 2013, an ACM and LBP survey was performed at the Property by Lawrence Environmental Group (retained by GCE) for the purpose of identifying suspect ACM and LBP present at the Property. (See Appendices D and E)

The Site inspection was performed by Mr. Greg Collins and Mr. Ravi Kumar Kolaventi of GCE.

Current Operations/Hazardous Materials

At the time of the site visit, the subject property and the buildings were vacant. There were not any operations involving the storage or use of hazardous materials observed at the site.

Drainage Structures

There were not any drainage structures, such as floor drains, trench drains, drywells, storm drains, etc., observed at the site during the site visit.

Monitoring Wells

No groundwater monitoring wells were identified on the property.

Petroleum Storage Tanks

The two (2) gasoline underground storage tanks were removed and one (1) fuel oil UST has been closed in place with associated *Underground Storage Tank Closure Assessment Report*, May 2012, prepared by G C Environmental, Inc. The vent pipe on the southwestern portion of the building associated with closed in place fuel oil UST is still present at the site. Since it is a closed in place UST, this vent pipe has not been removed by GCE.

If any additional tanks are discovered at the site during redevelopment, they should be properly removed in accordance with all applicable New York City Fire Department (FDNY) and NYSDEC requirements.

PCBs

There were not any electrical transformers or other equipment suspected of containing PCBs observed on the subject property during the site visit.

PCBs may have been used as coolants and lubricants in the machinery and in cutting oils. The possible historical usage of PCB (prior to 1979) as coolants and lubricants in the machinery and in cutting oils may have environmentally impacted the property.

Asbestos Containing Materials

GCE identified pipe insulation and vinyl floor tiles suspected to be ACM. These materials were observed to be undamaged and in good condition at the time of inspection.

Lead Based Paint

GCE did not observe any LBP at the Property.

Potable Water Supply

Potable water is supplied to the area of the subject site through the New York City Municipal water supply system, which obtains water from upstate reservoirs.

2.4 Areas of Concern

The Phase I report was prepared by G C Environmental, Inc for United Pipe Nipple Co., (Mr. Roger De Simone) dated March 2012. This Phase I indentified ten (10) recognized environmental conditions (RECs) which were considered as Areas of Concerns.

REC1- GCE's visual inspection revealed the presence of two (2) vent pipes in the exterior storage area located adjacent to the northeastern exterior wall of the Property building. GCE also identified one (1) suspected fill pipe likely associated with these vent pipes on the northeastern sidewalk of the Property. GCE believed that there is a possibility of two (2) Underground Storage Tanks (USTs) present in the exterior storage area because of the presence of two (2) vent pipes. According to the interview with Mr. DeSimone, the Property owner, there were likely two (2) gasoline tanks (no longer in use since approximately 1990) located beneath the concrete-paved area in the vicinity of the vent lines. No information about these USTs was listed in the Environmental Data Resources (EDR) report, dated March 12, 2012. The potential presence of suspect USTs on the Property was considered to be a *recognized environmental condition.* This REC was addressed and documented in UST closure report, May 2012, prepared by GCE.

REC2-GCE's visual inspection revealed the presence of one (1) vent pipe on the southwestern exterior portion of the Property building. GCE also identified one (1) fill pipe likely associated with this vent pipe located inside the Property building in the machinery area. GCE believed that there is a possibility of one (1) UST present inside the building. No information about this UST was listed in the EDR report dated March 12, 2012. The potential presence of a suspect UST on the Property was considered to be a *recognized environmental condition.* This REC was addressed and documented in UST closure report, May 2012, prepared by GCE.

REC3- The Property has an E Designation (USTs & Window Wall attenuation) which is considered to be a *recognized environmental condition.* This REC for USTs was addressed and documented in UST closure report, May 2012, prepared by GCE.

REC4- Historical property usage as a pipe threading facility may have environmentally impacted the Property and considered to be a *recognized environmental condition.* This REC was addressed through this RIR report**.**

REC5- The lack of secondary containment or spill prevention in the areas of drums is considered to be a *recognized environmental condition.* This REC was addressed through this RIR report**.**

REC6- The poor housekeeping practices with evidence of continual leaks associated with the machinery and the observed conditions of the Property during GCEs site inspection (dated March 2012) is considered to be a *recognized environmental condition*. This REC was addressed through this RIR report**.**

REC7- PCBs may have been used as coolants and lubricants in the machinery and in cutting oils. The possible historical usage of PCBs (prior to 1979) as coolants and lubricants in the machinery and in cutting oils may have environmentally impacted the Property and is considered a *recognized environmental condition*. This REC was addressed through this RIR report**.**

REC8- The presence of adjacent properties with industrial uses in the vicinity of the Property is considered to be a *recognized environmental condition.* This REC was addressed through this RIR report**.**

REC9- GCE conducted a limited visual screening survey for the presence of Asbestos Containing Material (ACM) at the Property. In areas of the Property, GCE identified pipe

insulation and vinyl floor tiles suspected to be ACM. With for structures that were constructed prior to 1980, the presence of ACM is a REC. GCE subcontracted Lawrence Environmental Group to perform ACM inspection. This REC was addressed through this RIR report**.**

REC10- GCE conducted a limited visual screening survey for the presence of Lead Based Paint (LBP) at the Property. GCE did not observe any suspect LBP in the areas of the Property. However for structures that were constructed prior to 1980, the presence of LBP is a REC. GCE subcontracted Lawrence Environmental Group to perform LBP inspection. This REC was addressed through this RIR report**.**

Geophysical Survey

The geophysical survey has already been performed and the underground storage tanks have since been removed/closed with associated closure assessment. The tanks have been closed/removed at the site include:

- Two (2) 550 -gallon gasoline tanks on exterior portion-removed;
- One (1) 1,500-gallon fuel oil tank in the interior-closed in place

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Mr. Dean Devoe.

3.2 Health and Safety

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

3.3 Materials Management

All investigation-derived waste (e.g., drill cuttings, decontamination water, etc.) was containerized in a NYSDOT-approved 55-gallon drum for legal disposal. All disposable personal protective equipment used during the site investigation was appropriately containerized for off-site disposal.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

The following work has been performed at the site:

1. Conducted a Site inspection to address AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed sixteen (16) soil borings across the entire project Site, and collected twenty six (26) soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three (3) temporary groundwater monitoring wells throughout the Site to establish groundwater flow and collected three (3) groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed five (5) soil vapor probes around Site perimeter and collected five (5) samples for chemical analysis.

Sampling performed as part of the field investigations was conducted for all AOCs which also considered sampling based on professional judgement, area history, discolored soil, stressed vegetation, drainage patterns, field measurement instruments, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

4.1 Geophysical Investigation

On May 02, 2013, a GPR survey was conducted at the Property for the purpose of marking out any underground utilities on all the drilling locations.

Approach of the GPR survey:

- GCE staff initiated the setup and data collection activities.
- GCE was onsite to oversee and perform field activities to assess prior findings, determine any additional findings, and mark out drilling locations

- Mr. Roger DeSimone provided access to the site.
- Performed survey with a 350 MHz GPR antenna, magnetic locator and a CAT radio detector.
- Marked out remote fill pipe runs along the former USTs.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

Pursuant to the above recommendations for REC 1 – REC 8, on May 02, 03, 06 and 07, 2013, GCE advanced a total of sixteen (16) borings at the Property, out of which six (6) soil borings (B-4, B-5, B-6, B-19, B-20 & B-21) were advanced in accordance with NYSDEC Spill Closure requirements (NYSDEC Spill No: 1205164, in accordance with "NYSDEC approved Phase II Work Plan dated March 29, 2013"). Three (3) out of six (6) borings (B-4, B-5 & B-6) were advanced along the remote fill pipe run advanced along the remote fill pipe run and dispenser island located on the north & northeastern exterior portion of the building for the former 550 gallon gasoline USTs and three (3) borings (B-19, B-20 & B-21) were advanced along the remote fill pipe run located on the southwestern interior portion of the building for the former 1500 gallon fuel oil UST.

From the remaining ten (10) borings (B-1, B-3, B-8, B-9, B-10, B-11, B-13, B-15, B-16 & B-17), eight (8) borings (B-8, B-9, B-10, B-11, B-13, B-15, B-16 & B-16) were advanced inside the inside the building in machinery area, parts storage area and two (2) borings (B-1 & B-3) were advanced exterior of the building in the vacant storage area. Seven (7) of ten (10) borings (B-3, B-9, B-10, B-11, B-13, B-15 & B-16) were soil borings and three (3) (B-1, B-8 & B-17) were soil and groundwater borings. The soil borings were advanced mechanically by Geoprobe/hand auger, approximately seven to seventy (7-70) feet in depth on the Property, in order to determine if the soil and groundwater at the Property has been impacted by the areas of environmental concern identified in the Phase I Report. Prior to commencement of the work, GCE arranged for a public and private underground utility mark out to be performed at the Site. The selection of the boring locations was based on the "OER Approved Work Plan dated

April 04, 2013", "NYSDEC Approved Phase II Work Plan" dated March 29, 2013, areas of environmental concern, the accessibility of the Site, on-site conditions, and the locations of public and private underground utilities. Please refer to the enclosed Figure 2 for the Site/Boring Location Plan.

A total of sixteen (16) soil borings (B-1, B-3 to B-6, B-8, B-9 to B-11, B-13, B-15, B-16, B-17 & B-19 to B-21) were advanced throughout the Property. Soil boring (B-1) was advanced on the northeastern exterior of the building, in the vacant storage area, north of two (2) removed 550 gallon USTs. Soil boring (B-3) was advanced on the northeastern exterior portion of the building, in the vacant storage area, on the west side of B-2 location. Soil borings (B-4 & B-5) were advanced along the remote fill pipe run located on the northeastern exterior portion of the building for the former 550 gallon gasoline USTs. Soil boring (B-6) was advanced near the dispenser island located on the northern exterior portion of the building for the former 550 gallon gasoline USTs. Soil boring (B-8) was advanced inside the northwestern portion of high one story brick building, northwest of B-7. Soil boring (B-9) was advanced on the northeastern interior portion of the machinery building (one story brick & concrete building). Soil boring (B-10) was advanced on the northwestern interior portion of the machinery building, west of the B-9 location. Soil boring (B-11) was advanced on the northeastern interior portion of the machinery building, in the parts storage area. Soil boring (B-13) was advanced on the southwestern interior portion of the machinery building, west of the B-11 & B-12 locations. Soil boring (B-15) was advanced on the southwestern interior portion of the machinery building, west of the B-14 location. Soil boring (B-16) was advanced on the southeastern interior portion of the machinery building, southwest of the B-13 location. Soil boring (B-17) was advanced on the southwestern interior portion of the machinery building, west of the B-16 location and approximately 5 feet east of the closed in place UST location. Soil borings (B-19, B-20 & B-21) were advanced along the remote fill pipe run located on the southwestern interior portion of the building for the former 1500 gallon fuel oil UST. Soil samples were collected and submitted for lab analysis from all the boring locations.

Boring logs prepared by a geologist are attached in Appendix B. A map showing the location of soil borings and monitor wells is shown in Figure 2.

Groundwater Monitoring Well Construction

Groundwater elevation was found to be 58-68.2 feet bgs. The groundwater samples were collected using a Geoprobe Sampler. The assembled screen point groundwater sampler was driven (with drive cap) to the subsurface using standard Geoprobe rods. Extension rods are used until the sampler tip has reached approximately one foot below the target sampling depth. After reaching the groundwater depth, the rods are pulled back about 2 feet. At this point, the groundwater depth/level is measured by lowering the sensor of a Solinst electronic interface meter. After recording the water level depth, the indicator sensor is removed from the geoprobe rods. (Please see Figure 2 for well locations). Tubing with a check value or smaller diameter bailer is then inserted into the probe rods to collect the water sample. 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, boreholes were backfilled with soil cuttings. Any suspect contaminated soil cuttings were placed in sealed and labeled DOT approved 55-gallon drums pending off-site disposal at a permitted facility.

Three-to-five well volumes were purged from each groundwater boring before the groundwater samples were collected. Each of the groundwater samples were appropriately containerized when collected and immediately placed in an ice-packed cooler. After each day's sampling, the samples were transported under strict chain-of-custody to a NYSDOH-ELAP certified laboratory.

All drilling equipment was steam cleaned prior to initial use. All metal parts of the Geoprobe sampler were cleaned using mechanical and chemical cleaning procedures which consisted of brushing and sweeping off loose dirt followed by detergent washing and potable water rinsing.

Groundwater samples were collected in accordance with the United States Environmental Protection Agency (USEPA) Region II Low Stress Groundwater

Sampling Protocol. Prior to sample collection, groundwater was purged using disposable polyethylene tubing. Field analyses of purged water was measured with Hanna 9828 Multiparameter meter and consisted of pH, temperature, conductivity, total dissolved solids and dissolved oxygen. These measurements were analyzed to ensure stabilization within each temporary monitoring well occurred prior to sample collection.

Monitor well locations are shown in Figure 2.

Survey

The soil borings, monitoring wells and soil vapor probes locations were in accordance with approved "Phase II Work Plan" dated March 14, 2013, to OER. On April 04, 2013, the OER approved the Phase II Work Plan submitted by GCE.

Water Level Measurement

Depth to groundwater was measured using a Solinst oil/water interface probe equipped with a fiberglass measuring tape. The oil/water interface probe uses a double signal system to sense the floating product surface and floating product/water interface. The same probe and measuring tape were used for all measurements. The probe and measuring tape were decontaminated before and between each well measurement using a tap water rinse, followed by a detergent rinse, followed by a distilled deionized water rinse, to prevent potential cross-contamination between the monitoring wells.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted for all Areas of Concern which also considered sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action

alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Soil samples were collected and submitted to lab analysis from all the boring locations. All the borings were advanced utilizing a Geoprobe/hand auger sampler, and were terminated at a depth of approximately seven to twenty (7-20) feet below grade. Subsurface soil samples were collected at intervals as indicated in the table included below until the desired depth was encountered. The soil samples were visually classified and logged by the onsite GCE geologist for soil characterization purposes. Laboratory glassware was used for the soil samples and consisted of the following:

- Volatile Organic Compounds (VOCs) – one (1) 2-ounce glass jar equipped with teflon lined enclosure per sample; and,
- Semi-Volatile Organic Compounds/Base Neutrals (B/Ns) – one (1) 8-ounce glass jar equipped with a teflon lined enclosure per sample.
- Polychlorinated Biphenyls (PCBs) - one (1) 8-ounce glass jar equipped with a teflon lined enclosure per sample.
- Pesticides- one (1) 8-ounce glass jar equipped with a teflon lined enclosure per sample.
- Target Analyte List (TAL) Metals- one (1) 8-ounce glass jar equipped with a teflon lined enclosure per sample.

Soil samples from the borings were placed into glass containers equipped with a teflon lined enclosure for soils. The quantity of soil was split as follows: the head space of the 8-oz glass container was allowed to develop and was subsequently field screened for the presence of total VOCs using MultiRAE systems portable photoionization detector (PID) with a 10.6 e.V. lamp, calibrated for isobutylene standards.

Twenty six (26) soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and

sample depths, is reported in Tables 1-3. Figure 2 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

The depth to groundwater at the site ranges from 58- 68.2 ft bgs.

Three (3) groundwater samples were collected for chemical analysis during this RI. Grounwater sample collection data is reported in Table 2 & 6. Sampling logs with information on purging and sampling of groundwater monitor wells is included in Appendix B. Figure 2 shows the location of groundwater sampling. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

A 3-4 inch diameter hole was drilled into the concrete floor using geoprobe/hand auger drill for each soil vapor probe. Sub slab material (PVC pipe) of approximately 1 inch diameter was then inserted into the hole. Laboratory quality inert polyethylene tubing (1/4 inch diameter) was installed into the sub-slab material. The tubing did not extend further than 2 inches into the sub slab material. The hole was then sealed to the surface with a mixture of non-VOC containing material (modeling clay) to prevent outdoor/indoor air infiltration. Adequate seal had been created around the soil vapor probes and no leaks were detected prior to soil vapor sampling. The locations of the sub-slab vapor probes are presented in Figure 2- Site Plan.

A real time tracer gas (helium) was used prior to collecting soil vapor samples to verify that an adequate seal had been created around the soil vapor probes. No leaks (> 10 %) were detected prior to soil vapor sampling.

The newly installed soil vapor probes were allowed to stabilize and equilibrate with the subsurface conditions for approximately 24 hrs prior to sampling.

Sub slab Soil Vapor-1 (field logged as SB-2/Soil Vapor 1) probe was installed in boring B-2 on the northeastern exterior portion of the building, in the vacant storage area, west of the B-1 location; Sub slab Soil Vapor-2 (field logged as SB-7/Soil Vapor 2) probe was installed in boring B-7 located inside the northwestern portion of the one story high brick

building; Sub slab Soil Vapor-3 (field logged as SB-12/Soil Vapor 3) probe was installed in boring B-12 located on the northwestern interior portion of the machinery building, in the parts storage area, south of the B-11 location; Sub slab Soil Vapor-4 (field logged as SB-18/ Soil Vapor 4) probe was installed in boring B-18 on the southeastern interior portion of the machinery building, in the office area, southeast of the B-16 location; and Sub slab Soil Vapor-5 (field logged as SB-14/Soil Vapor 5) probe was installed in boring B-14 southwestern interior portion of the machinery building, west of B-13 location.

Five (5) soil vapor probes were installed and five (5) soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 2. Soil vapor sample collection data is reported in Table 5. Soil vapor sampling logs are included in Appendix B. Methodologies used for soil vapor assessment conform to the NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006.

Chemical Analysis

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

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

Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 1-6, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in Appendix C.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Based on the information gathered during the Phase II Environmental Site Assessment, the geology in the area of the Property to the explored maximum depth of approximately 70 feet below grade consists of approximately 2 to 3 feet of fill, represented by dark clay, underlain by approximately 7-8 feet of brown clay and 60 feet of yellow-brown clay material with little gravel.

Stratigraphy

The stratigraphy of the site, from the surface down, consists of urban fill (asphalt, stones/bricks) in a medium clay matrix to approximately 7 to 8 below grade. A native medium soil with small proportion of gravel is present below the urban fill throughout the site.

Hydrogeology

According to USGS Potentiometric Long Island Groundwater Map, the depth to groundwater in the vicinity of the Property is approximately 60 feet below grade. Based on the information gathered during Phase II investigation, the depth to ground water at the Property is 58-60 feet below ground surface. The average depth to groundwater is 60 feet and the range in depth is 58.0 to 68.2. Groundwater flow is to the northwest beneath the site.

5.2 Soil Chemistry

The soil sampling results were compared to the *New York State Department of Environmental Conservation (NYSDEC) - CP 51 Soil Cleanup Guidance Policy (Regulatory Standards) and NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objective (Unrestricted Use).* In the instance of soil sampling results in close proximity to USTs (SB-1, SB-4 to SB-6, SB-17 and SB-19 to SB-21 samples) the results were additionally compared to the *New York State Department of Environmental Conservation (NYSDEC) - CP 51 Soil Cleanup Guidance Policy (Regulatory Standards).*

According to the NYSDOH Guidance, New York State currently does not have any standards, criteria or guidance values for concentrations of compounds in sub-slab samples and

recommends using NYSDOH Matrices that were developed for trichloroethene (Matrix-1), carbon tetrachloride (Matrix 1) and tetrachloroethene (Matrix-2).

Soil Results

The soil sampling results were compared to New York State Department of Environmental Conservation (NYSDEC) - CP 51 Soil Cleanup Guidance Policy (Regulatory Standards) and NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objective (Unrestricted Use). Laboratory analysis of the soil samples indicate the following:

SB-1 (0-2)

The concentrations of eight (8) TAL Metals namely Arsenic (20.6 mg/kg), Cadmium (2.18 mg/kg), Chromium (33.7 mg/kg), Copper (94.6 mg/kg), Iron (99,100 mg/kg), Mercury (2.56 mg/kg), Nickel (21.3 mg/kg) and Zinc (1,180 mg/kg) were detected above NYSDEC CP-51 Soil Cleanup Guidance Values of 7.5 mg/kg for Arsenic, 1.0 mg/kg for Cadmium, 10 mg/kg for Chromium, 25 mg/kg for Copper, 2000 mg/kg for Iron, 0.1 mg/kg for Mercury, 13 mg/kg for Nickel and 20 mg/kg for Zinc in SB-1 (0-2) sample.

The concentrations of six (6) TAL Metals namely Arsenic (20.6 mg/kg), Chromium (33.7 mg/kg), Copper (94.6 mg/kg), Lead (718 mg/kg), Mercury (2.56 mg/kg) and Zinc (1,180 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 13 mg/kg for Arsenic, 30 mg/kg for Chromium, 50 mg/kg for Copper, 63 mg/kg for Lead, 0.18 mg/kg for Mercury and 109 mg/kg for Zinc in SB-1 (0-2) sample.

The VOCs, B/Ns, PCBs, Pesticides and other TAL Metals in SB-1 (0-2) samples were either not-detected, estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values & NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

SB-1 (12-14)

The concentrations of four (4) TAL Metals namely Beryllium (0.39 mg/kg), Chromium (17 mg/kg), Iron (24,800 mg/kg) and Zinc (28.2 mg/kg) were detected above NYSDEC CP-51 Soil Cleanup Guidance Values of 0.16 mg/kg for Beryllium, 10.0 mg/kg for Chromium, 2000 mg/kg for Iron and 20 mg/kg for Zinc in SB-1 (12-14) sample.

The concentrations of TAL Metals were either not-detected, estimated below their method detection limits or detected below the NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) Standards.

The VOCs, B/Ns, PCBs, Pesticides and other TAL Metals in SB-1 (12-14) samples were either not-detected, estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values & NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use Standards).

SB-3 (0-2)

The concentration of two (2) TAL Metals namely Lead (283 mg/kg) and Mercury (0.28 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 63 mg/kg for Lead and 0.18 mg/kg for Mercury in SB-3 (0-2) sample.

The VOCs, B/Ns, PCBs, Pesticides and other TAL Metals in SB-3 (0-2) samples were either not-detected, estimated below their method detection limits or detected below the NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use).

SB-3 (12-14)

The VOCs, B/Ns, PCBs, Pesticides and TAL Metals in SB-3 (12-14) samples were either not-detected, estimated below their method detection limits or detected below the NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use).

SB-4 (5-10)

The VOCs and B/Ns in SB-4 (5-10) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values).

SB-5 (5-10)

The VOCs and B/Ns in SB-5 (5-10) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values).

SB-6 (5-10)

The VOCs and B/Ns in SB-6 (5-10) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values).

SB-8 (0-2)

The concentration of three (3) TAL Metals namely Lead (259 mg/kg), Mercury (0.98 mg/kg) and Zinc (142 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 63 mg/kg for Lead, 0.18 mg/kg for Mercury and 109 mg/kg for Zinc in SB-8 (0-2) sample.

The concentrations of seven (7) SVOCs namely Benzo (a) anthracene (2.1 mg/kg), Benzo (a) pyrene (2.2 mg/kg), Benzo (b) fluoranthene (2.7 mg/kg), Benzo (k) fluoranthene, (0.95 mg/kg), Chrysene (2.3 mg/kg), Dibenzo (a,h) anthracene (0.37 mg/kg) and Indeno (1,2,3-cd) pyrene (1.3 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 1.0 mg/kg for Benzo (a) anthracene, 1.0 mg/kg for Benzo (a) pyrene, 1.0 mg/kg for Benzo (b) fluoranthene, 0.8 mg/kg for Benzo (k) fluoranthene, 1.0 mg/kg for Chrysene, 0.33 mg/kg for Dibenzo (a,h) anthracene and 0.5 mg/kg for Indeno (1,2,3-cd) pyrene in SB-8 (0-2) sample.

The VOCs, other B/Ns, PCBs, Pesticides and other TAL Metals were either not-detected, estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use).

SB-8 (12-14)

The VOCs, B/Ns, PCBs, Pesticides and TAL Metals in SB-8 (12-14) samples were either not-detected, estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

SB-9 (0-2), SB-9 (12-14)

The VOCs, B/Ns, PCBs, Pesticides and TAL Metals in SB-9 (0-2) & SB-9 (12-14) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

SB-10 (0-2)

The concentration of one (1) TAL Metal namely Zinc (124 mg/kg) was detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 109 mg/kg for Zinc in SB-10 (0-2) sample.

The VOCs, B/Ns, PCBs, Pesticides and other TAL Metals in SB-10 (0-2) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

SB-10 (12-14)

The concentration of one (1) TAL Metal namely Chromium (30.1 mg/kg) was detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 30 mg/kg for Chromium in SB-10 (12-14) sample.

The concentrations of two (2) Pesticides namely 4,4'-DDD (0.096 mg/kg) and Dieldrin (0.014 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 0.0033 mg/kg for 4,4'-DDD and 0.005 mg/kg for Dieldrin in SB-10 (12-14) sample.

The VOCs, B/Ns, PCBs, other Pesticides and other TAL Metals in SB-10 (12-14) samples were not-detected, estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

SB-11 (0-2)

The concentration of two (2) TAL Metals namely Lead (266 mg/kg) and Mercury (0.62 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 63 mg/kg for Lead and 0.18 mg/kg for Mercury in SB-11(0-2) sample.

The concentrations of four (4) SVOCs namely Benzo (a) anthracene (1.1 mg/kg), Benzo (b) fluoranthene (1.2 mg/kg), Chrysene (1.1 mg/kg) and Indeno (1,2,3-cd) pyrene (0.52 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 1.0 mg/kg for Benzo (a) anthracene, 1.0 mg/kg for Benzo (b) fluoranthene, 1.0 mg/kg for Chrysene and 0.5 mg/kg for Indeno (1,2,3-cd) pyrene in SB-11 (0-2) sample.

The concentration of one (1) Pesticide namely 4,4'-DDD (0.049 mg/kg) was detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 0.0033 mg/kg for 4,4'-DDD in SB-11 (0-2) sample.

The VOCs, other B/Ns, PCBs, other Pesticides and other TAL Metals were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

<u>SB-11 (5-7)</u>

The concentration of two (2) TAL Metals namely Lead (205 mg/kg) and Mercury (0.45 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 63 mg/kg for Lead and 0.18 mg/kg for Mercury in SB-11 (5-7) sample.

The VOCs, B/Ns, PCBs, Pesticides and other TAL Metals in SB-11 (5-7) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

<u>SB-13 (0-2), SB-13 (5-7)</u>

The VOCs, B/Ns, PCBs, Pesticides and TAL Metals in SB-13 (0-2) & SB-13 (5-7) samples were either not-detected, estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

SB-15 (0-2)

The concentration of three (3) TAL Metals namely Copper (119 mg/kg), Lead (116 mg/kg) and Zinc (187 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 50 mg/kg for Copper, 63 mg/kg for Lead and 109 mg/kg for Zinc in SB-15 (0-2) sample.

The VOCs, B/Ns, PCBs, Pesticides and other TAL Metals in SB-15 (0-2) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

SB-15 (12-14)

The VOCs, B/Ns, PCBs, Pesticides and TAL Metals in SB-15 (12-14) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

SB-16 (0-2), SB-16 (12-14)

The VOCs, B/Ns, PCBs, Pesticides and TAL Metals in SB-16 (0-2) & SB-16 (12-14) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use)).

SB-17 (0-2)

The concentration of five (5) TAL Metals namely Beryllium (0.44 mg/kg), Chromium (16.1 mg/kg), Iron (16,900 mg/kg), Mercury (0.17 mg/kg) and Zinc (165 mg/kg) were detected above NYSDEC CP-51 Soil Cleanup Guidance Values of 0.16 mg/kg for Beryllium, 10 mg/kg for Chromium, 2000 mg/kg for Iron, 0.1 mg/kg for Mercury and 20 mg/kg for Zinc in SB-17 (0-2) sample.

The concentrations of two (2) TAL Metals namely Lead (300 mg/kg) and Zinc (165 mg/kg) were detected above NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) of 63 mg/kg for Lead and 109 mg/kg for Zinc in SB-17 (0-2) sample.

The VOCs, B/Ns, PCBs, Pesticides and other TAL Metals in SB-17 (0-2) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values).

SB-17 (12-14)

The concentration of four (4) TAL Metals namely Beryllium (0.45 mg/kg), Chromium (18.2 mg/kg), Iron (19,500 mg/kg) and Zinc (27.4 mg/kg) were detected above NYSDEC CP-51 Soil Cleanup Guidance Values of 0.16 mg/kg for Beryllium, 10 mg/kg for Chromium, 2000 mg/kg for Iron and 20 mg/kg for Zinc in SB-17 (12-14) sample.

The concentrations of TAL Metals were either not-detected , estimated below their method detection limits or detected below the NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) Standards.

The VOCs, B/Ns, PCBs, Pesticides and other TAL Metals in SB-17 (12-14) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values & NYSDEC Part 375-6.8 (a) Unrestricted Use Soil Cleanup Objectives (Unrestricted Use) Standards).

SB-19 (5-10)

The VOCs and B/Ns in SB-19 (5-10) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values).

SB-20 (5-10)

The VOCs and B/Ns in SB-20 (5-10) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values).

SB-21 (5-7)

The VOCs and B/Ns in SB-21 (5-7) samples were either not-detected , estimated below their method detection limits or detected below the Regulatory Standards (NYSDEC CP-51 Soil Cleanup Guidance Values).

(Please refer to Tables 1 & 4 for Summary of Detected Compounds and Laboratory Analytical Report attached in Appendix C)

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 1 & 3. Figure 2 & 4 shows the location and lists the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 1 Unrestricted Use Soil Cleanup Objectives.

5.3 Groundwater Chemistry

The Groundwater results were compared to New York State Department of Environmental Conservation (NYSDEC)-Technical & Operational Guidance Series (TOGS) Ambient Water Quality Standards.

Groundwater Analytical Results for SB-1/GW-1

TAL Metals (Unfiltered)

The concentrations of nine (9) Metals (Unfiltered) namely Arsenic (37 ug/l), Cadmium (6 ug/l), Chromium (915 ug/l), Copper (777 ug/l), Iron (289,000 ug/l), Lead (152 ug/l), Manganese (15,400 ug/l) and Nickel (1380 ug/l) were detected above NYSDEC-TOGS Ambient Water Quality Standards of 25 ug/l for Arsenic, 5 ug/l for Cadmium, 50 ug/l for Chromium, 200 ug/l for Copper, 300 ug/l for Iron, 25 ug/l for Lead, 300 ug/l for Manganese and 100 ug/l for Nickel in SB-1/GW-1 sample.

The remaining compounds were either not detected or detected below their regulatory standards.

TAL Metals (Dissolved/Filtered)

The concentration of one (1) Metal (Dissolved/Filtered) namely Manganese (841 ug/l) was detected above NYSDEC-TOGS Ambient Water Quality Standards of 100 ug/l for Manganese in SB-1/GW-1 sample.

The remaining compounds were either not detected or detected below their regulatory standards.

PCBs

PCBs were not detected in SB-1/GW1 sample.

Pesticides

Pesticides were not detected in SB-1/GW1 sample.

VOCs

VOCs were not detected in SB-1/GW-1 sample.

Other VOCs, SVOCs and Total 8 RCRA Metals were either not detected or detected at trace levels below NYSDEC-TOGS Ambient Water Quality Standards.

SVOCs

The concentrations of four (4) SVOCs namely Benzo (a) anthracene (0.05 ug/l), Benzo (b) fluoranthene (0.02 ug/l), Chrysene (0.03 ug/l) and Indeno (1,2,3-cd) pyrene (0.08 ug/l) were detected above NYSDEC-TOGS Ambient Water Quality Standards of 0.002 ug/l for Benzo (a) anthracene, 0.002 ug/l for Benzo (b) fluoranthene, 0.002 ug/l for Chrysene and 0.002 ug/l for Indeno (1,2,3-cd) pyrene in SB-1/GW-1 sample.

The remaining compounds were either not detected or detected below their regulatory standards.

Groundwater Analytical Results for SB-8/GW-2

TAL Metals (Unfiltered)

The TAL Metals (Unfiltered) were either not detected or detected at trace levels below NYSDEC-TOGS Ambient Water Quality Standards.

TAL Metals (Dissolved/Filtered)

The TAL Metals (Dissolved/Filtered) were either not detected or detected at trace levels below NYSDEC-TOGS Ambient Water Quality Standards.

PCBs

PCBs were not detected in SB-8/GW 2 sample.

Pesticides

Pesticides were not detected in SB-8/GW 2 sample.

VOCs

VOCs were either not detected or detected at trace levels below NYSDEC-TOGS Ambient Water Quality Standards in SB-8/GW-2 sample.

SVOCs

The concentrations of four (4) SVOCs namely Benzo (a) anthracene (0.07 ug/l), Benzo (b) fluoranthene (0.05 ug/l), Benzo (k) fluoranthene (0.02 ug/l) and Chrysene (0.03 ug/l) were detected above NYSDEC-TOGS Ambient Water Quality Standards of 0.002 ug/l for Benzo (a) anthracene, 0.002 ug/l for Benzo (b) fluoranthene, 0.002 ug/l for Benzo (k) fluoranthene and 0.002 ug/l for Chrysene in SB-8/GW-2 sample.

The remaining compounds were either not detected or detected below their regulatory standards.

Groundwater Analytical Results for SB-17/GW-3

TAL Metals (Unfiltered)

The TAL Metals (Unfiltered) were either not detected or detected at trace levels below NYSDEC-TOGS Ambient Water Quality Standards.

TAL Metals (Dissolved/Filtered)

The TAL Metals (Dissolved/Filtered) were either not detected or detected at trace levels below NYSDEC-TOGS Ambient Water Quality Standards.

PCBs

PCBs were not detected in SB-17/GW 3 sample.

Pesticides

Pesticides were not detected in SB-17/GW 3 sample.

VOCs

VOCs were either not detected or detected at trace levels below NYSDEC-TOGS Ambient Water Quality Standards in SB-17/GW-3 sample.

SVOCs

The concentrations of three (3) SVOCs namely Benzo (a) anthracene (0.05 ug/l), Benzo (b) fluoranthene (0.04 ug/l) and Chrysene (0.03 ug/l) were detected above NYSDEC-TOGS Ambient Water Quality Standards of 0.002 ug/l for Benzo (a) anthracene, 0.002 ug/l for Benzo (b) fluoranthene and 0.002 ug/l for Chrysene in SB-17/GW-3 sample.

The remaining compounds were either not detected or detected below their regulatory standards.

(Please refer to Table 2 for Summary of Detected Compounds and Laboratory Analytical Report attached in Appendix C)

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on groundwater samples is included in Table 2. Figure 5 shows the location and lists the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

Sub-Slab Air Sampling Results

SB-2/Soil Vapor 1

Concentrations of (BTEX) Benzene (10.4 ug/m^3), Toluene (86.2 ug/m^3), Ethylbenzene (42.2 ug/m^3) and Xylenes (237.4 ug/m^3) (microgram per cubic meter (ug/m^3)) were detected in the SB-2 Soil Vapor 1 sample.

Concentrations of chlorinated VOC's, namely Tetrachloroethene (PCE) (2.78 ug/m^3), Methylene chloride (8.37 ug/m^3), Carbon tetrachloride (0.377 ug/m^3) and various Petroleum hydrocarbons, 1, 2, 4- Trimethylbenzene (99.2 ug/m^3), 1, 3, 5- Trimethylbenzene (26.9 ug/m^3), 4-Isopropyltoulene (7.79 ug/m^3), Isopropylbenzene (6.44 ug/m^3) were detected in the sub-slab soil vapor sample SB-2 Soil Vapor 1.

SB-7/ Soil Vapor 2

Concentrations of Benzene (11.7 ug/m^3), Toluene (246 ug/m^3), Ethylbenzene (72 ug/m^3) and Xylenes (392 ug/m^3) were detected in the SB-7 Soil Vapor 2 sample.

Concentrations of chlorinated VOC's, namely Tetrachloroethene (PCE) (2.44 ug/m^3), Methylene chloride (3.51 ug/m^3), Carbon tetrachloride (0.377 ug/m^3) and various Petroleum hydrocarbons, 1, 2, 4- Trimethylbenzene (132 ug/m^3), 1, 3, 5- Trimethylbenzene (38 ug/m^3), 4-Isopropyltoulene (8.06 ug/m^3), Isopropylbenzene (8.84 ug/m^3) were detected in the sub-slab soil vapor sample SB-7 Soil Vapor 2 sample.

SB-12/ Soil Vapor 3

Concentrations of Benzene (6.64 ug/m^3), Toluene (61 ug/m^3), Ethylbenzene (30.9 ug/m^3) and Xylenes (178.4 ug/m^3) were detected in the SB-12/Soil Vapor 3 sample.

Concentrations of chlorinated VOC's, namely Tetrachloroethene (PCE) (17.6 ug/m^3), Methylene chloride (2.36 ug/m^3) and various Petroleum hydrocarbons namely 1, 2, 4- Trimethylbenzene (88.9 ug/m^3), 1, 3, 5- Trimethylbenzene (23.4 ug/m^3), 4-Isopropyltoulene (6.97 ug/m^3),

Isopropylbenzene (4.67 ug/m^3) were detected in the sub-slab soil vapor sample SB-12 Soil Vapor 3 sample.

SB-18/ Soil Vapor 4

Concentrations of Benzene (8.62 ug/m^3), Toluene (143 ug/m^3), Ethylbenzene (40.9 ug/m^3) and Xylenes (228.3 ug/m^3) were detected in SB-18 Soil Vapor 4 sample.

Concentrations of chlorinated VOC's, namely Tetrachloroethene (PCE) (28.9 ug/m^3), Methylene chloride (3.92 ug/m^3) and various Petroleum hydrocarbons namely 1, 2, 4- Trimethylbenzene (84 ug/m^3), 1, 3, 5- Trimethylbenzene (25.2 ug/m^3), 4-Isopropyltoulene (7.08 ug/m^3), Isopropylbenzene (26.7 ug/m^3) were detected in the sub-slab soil vapor sample SB-18 Soil Vapor 4 sample.

SB-14/ Soil Vapor 5

Concentrations of Benzene (28.3 ug/m^3), Toluene (143 ug/m^3), Ethylbenzene (26.6 ug/m^3) and Xylenes (154.7 ug/m^3) were detected in the SB-14 Soil Vapor 5 sample.

Concentrations of chlorinated VOC's, namely Trichloroethene (TCE) (0.376 ug/m^3), Tetrachloroethene (PCE) (2.3 ug/m^3), Methylene chloride (2.95 ug/m^3) and various Petroleum hydrocarbons namely 1, 2, 4- Trimethylbenzene (70.2 ug/m^3), 1, 3, 5- Trimethylbenzene (19.4 ug/m^3), 4-Isopropyltoulene (3.51 ug/m^3), Isopropylbenzene (5.06 ug/m^3) were detected in the sub-slab soil vapor sample SB-14 Soil Vapor 5 sample.

(Please refer to Table 3 for Summary of Detected Compounds and Laboratory Analytical Report attached in Appendix C)

Results Review-Soil Vapor

NYSDOH Standards/Guidance

According to the NYSDOH Guidance, New York State currently does not have any standards, criteria or guidance values for concentrations of compounds in subslab samples and recommends using NYSDOH Matrices that were developed for trichloroethene (Matrix-1), carbon tetrachloride (Matrix 1) and tetrachloroethene (Matrix-2).

GCE's review of the soil vapor laboratory analytical results and comparison with NYSDOH matrices indicates the following:

Trichloroethene was detected below sub-slab concentrations of 5 ug/m^3 in sub-slab soil vapor sample SB-14 Soil Vapor 5. In SB-14 Soil Vapor 5, this compound was detected at concentration of 0.376 ug/m^3.

Tetrachloroethene was detected below sub-slab concentrations of 100 ug/m^3 in all the sub- slab soil vapor samples SB-2 Soil Vapor 1, SB-7 Soil Vapor 2, SB-12 Soil Vapor 3, SB-18 Soil Vapor 4 and SB-14 Soil Vapor 5 samples. The concentrations ranges from 2.3 ug/m^3 to 28.9 ug/m^3

Carbon tetrachloride was detected either none detected or detected below sub-slab concentrations of 5 ug/m^3 in all the sub- slab soil vapor samples SB-2 Soil Vapor 1, SB-7 Soil Vapor 2, SB-12 Soil Vapor 3, SB-18 Soil Vapor 4 and SB-14 Soil Vapor 5 samples. The concentration ranges from not detected to 0.377 ug/m^3

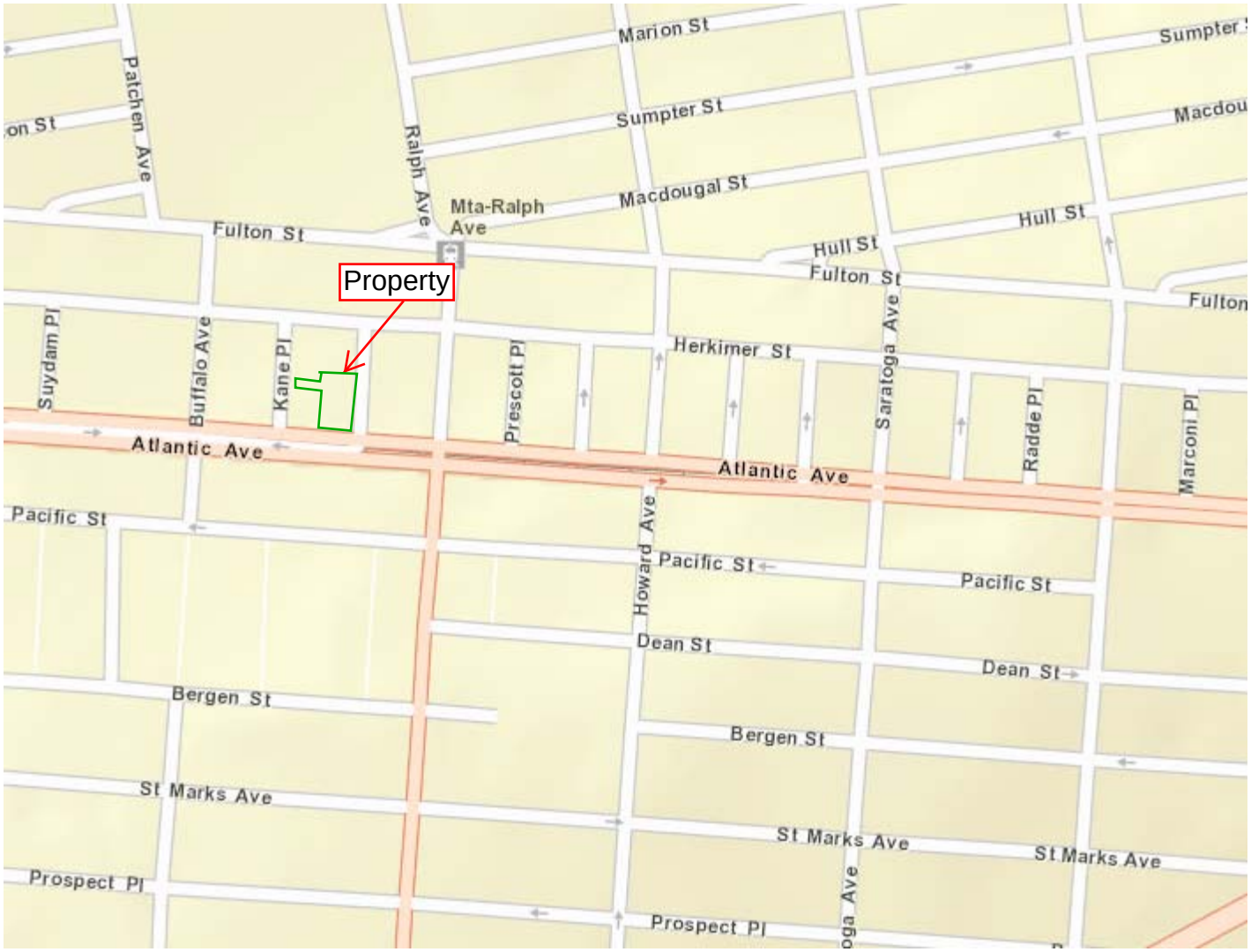
Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site.

5.5 Prior Activity

Based on an evaluation of the data and information from the RIR, past operations may have caused subsurface contamination. Despite low values returned by laboratory, suspect petroleum impacted waste was suspected in the vacant storage area, due to olfactory evidence.

5.6 Impediments to Remedial Action

There are no known impediments to remedial action at the property. Soil Management practices like segregation and storage, field testing of excavated soils and soil sampling for disposal requirements etc., will be implemented in RAWP.



G. C. Environmental, Inc.
Consultants Contractors

22 Oak Street
Bay Shore, New York 11706

Tel: (631) 206-3700
Fax: (631) 206-3729

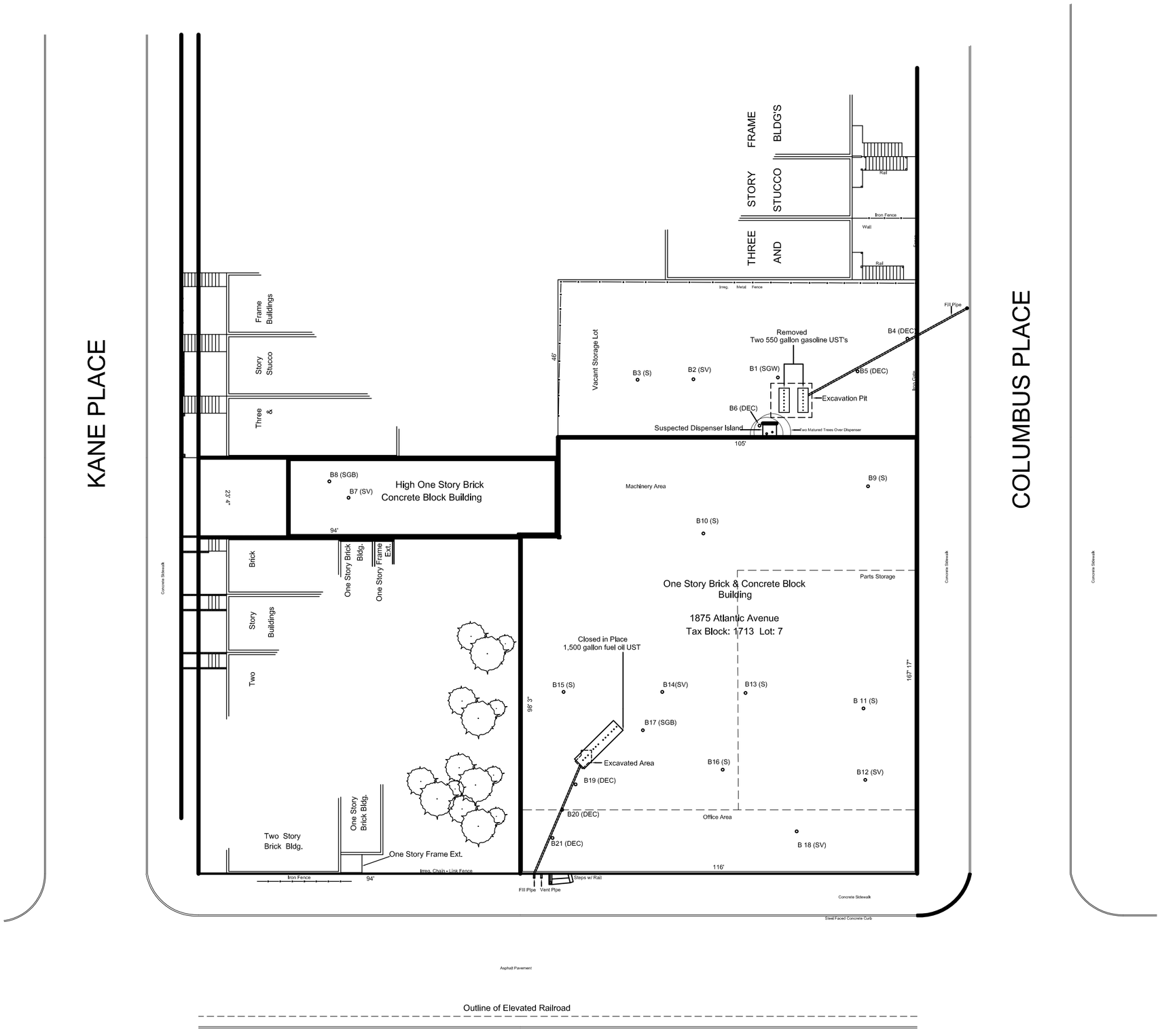
Site Locus Map

1875 Atlantic Avenue,
Brooklyn, NY 11233

GCE Project No.: 13-103-00

Figure 1

Street Map



Assumed Groundwater
Flow Direction
NW

KEY

B (S) = Boring Locations-Soil sample

B (SGB) = Boring Locations-Soil + Groundwater samples

B(SV) = Boring Locations-Soil Vapor samples

B (DEC) = Soil Boring Locations for NYSDEC Spill 1205164 Closure (B 4-6, B19-21)

N
E
S
W

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Parcel Area: 21, 126 Sq. Ft.
Or 0.48499 Acre

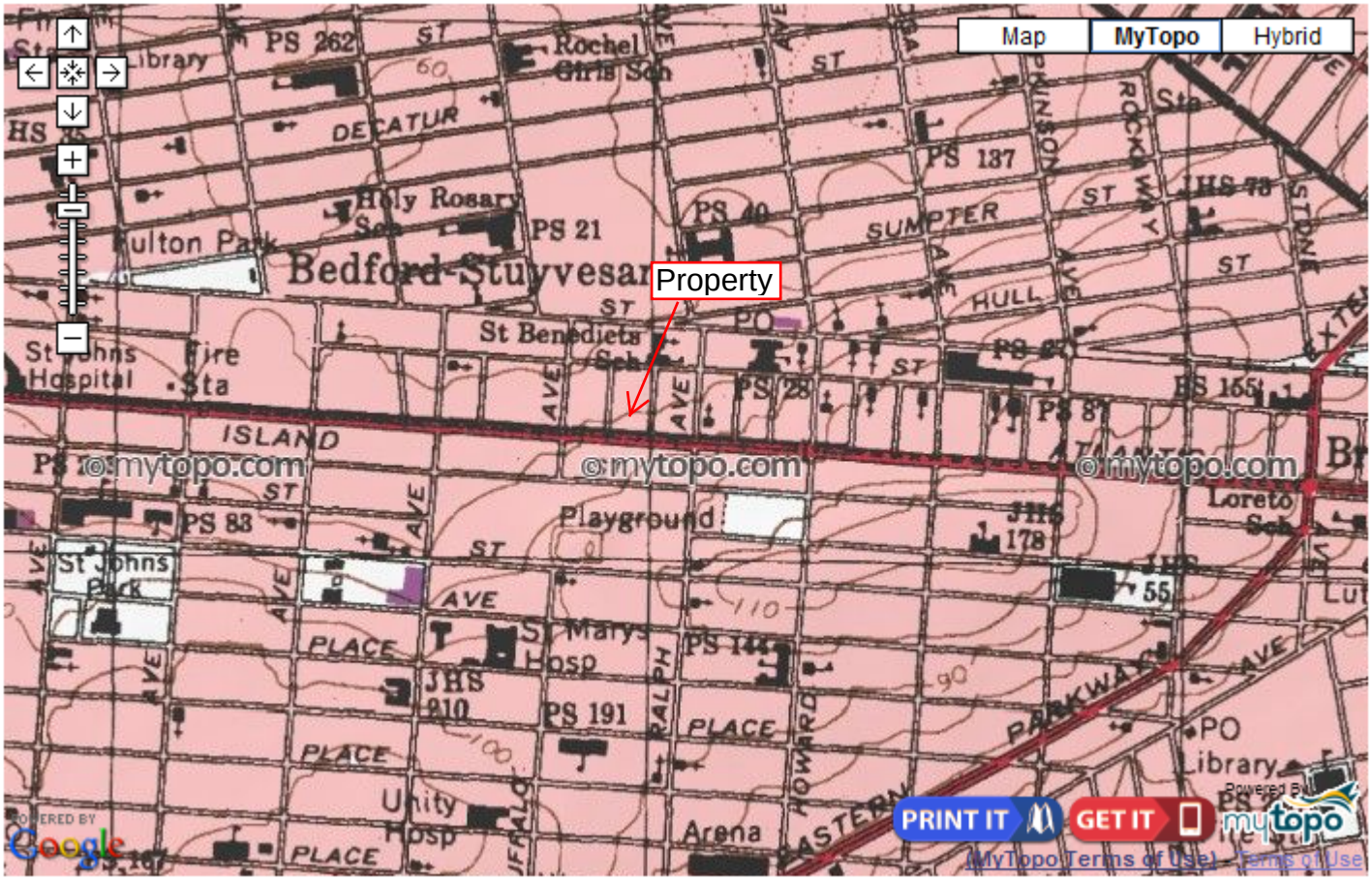
Tax Block: 1713
Tax Lot: 7

SITE PLAN

GCE PROJECT NO: **13-103-00**

DRAWN BY: TR Revella

0 25 50 Feet
SCALE



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Topographic Map

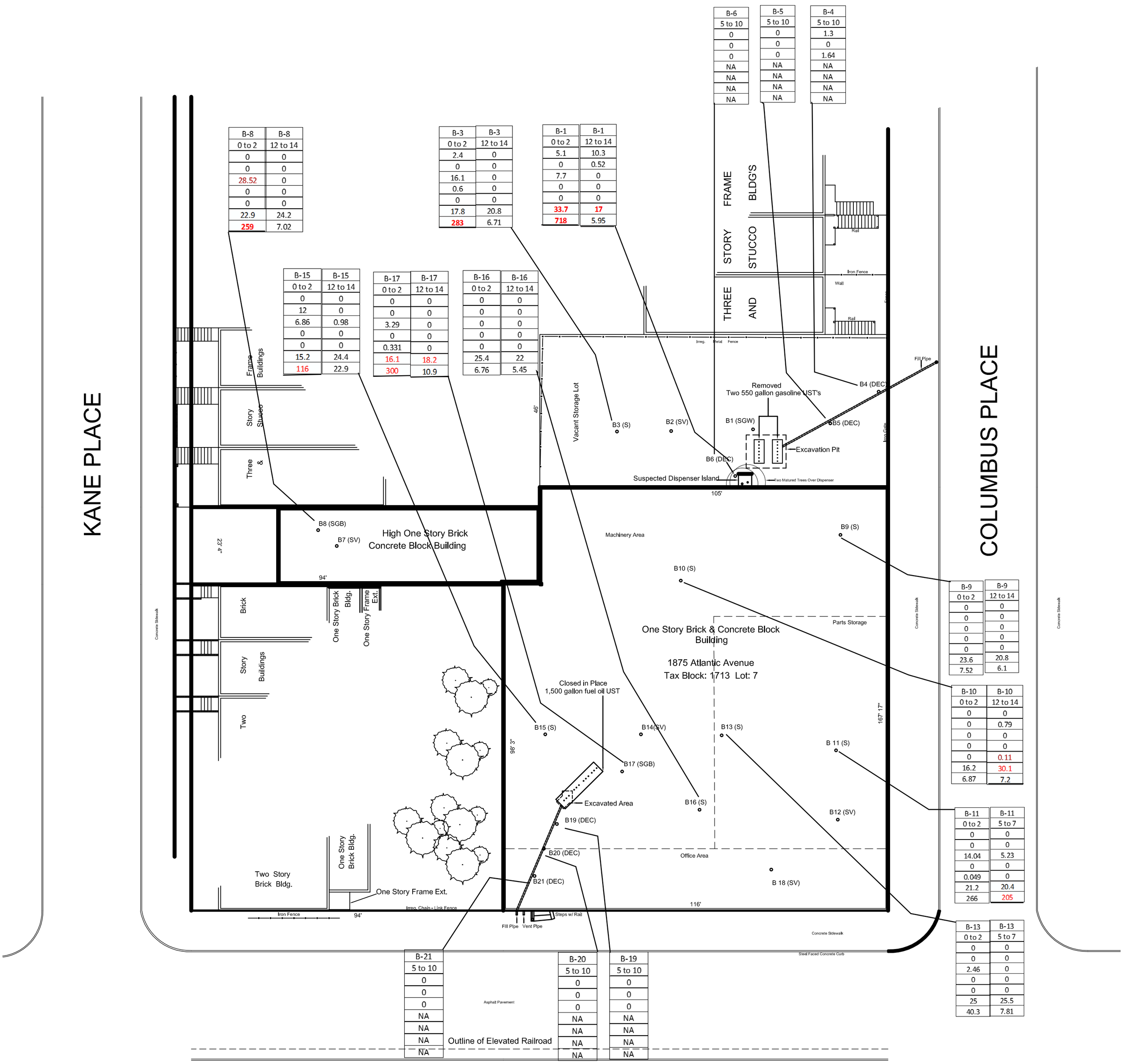
1875 Atlantic Avenue,
Brooklyn, NY 11233

GCE Project No.: 13-103-00

Figure 3

Topo Map

SOIL RESULTS MAP



B-8	B-8
0 to 2	12 to 14
0	0
0	0
28.52	0
0	0
0	0
22.9	24.2
259	7.02

B-3	B-3
0 to 2	12 to 14
2.4	0
0	0
16.1	0
0.6	0
0	0
17.8	20.8
283	6.71

B-1	B-1
0 to 2	12 to 14
5.1	10.3
0	0.52
7.7	0
0	0
0	0
33.7	17
718	5.95

B-6
5 to 10
0
0
0
NA
NA
NA
NA

B-5
5 to 10
0
0
0
NA
NA
NA
NA

B-4
5 to 10
1.3
0
1.64
NA
NA
NA
NA

B-15	B-15
0 to 2	12 to 14
0	0
12	0
6.86	0.98
0	0
0	0
15.2	24.4
116	22.9

B-17	B-17
0 to 2	12 to 14
0	0
0	0
3.29	0
0	0
0.331	0
16.1	18.2
300	10.9

B-16	B-16
0 to 2	12 to 14
0	0
0	0
0	0
0	0
0	0
25.4	22
6.76	5.45

B-9	B-9
0 to 2	12 to 14
0	0
0	0
0	0
0	0
0	0
23.6	20.8
7.52	6.1

B-10	B-10
0 to 2	12 to 14
0	0
0	0.79
0	0
0	0
0	0.11
16.2	30.1
6.87	7.2

B-11	B-11
0 to 2	5 to 7
0	0
0	0
14.04	5.23
0	0
0.049	0
21.2	20.4
266	205

B-13	B-13
0 to 2	5 to 7
0	0
0	0
2.46	0
0	0
0	0
25	25.5
40.3	7.81

B-21
5 to 10
0
0
0
NA
NA
NA
NA

B-20
5 to 10
0
0
0
NA
NA
NA
NA

B-19
5 to 10
0
0
0
NA
NA
NA
NA

Assumed Groundwater Flow Direction NW

Legend

B-1	Sample ID
0 to 14	Depth (Feet)
5.1	PID (ppm)
0.52	Total Detected VOCs (mg/kg)
28.52	Total Detected SVOCs (mg/kg)
0	Total Detected PCBs (mg/kg)
0.331	Total Detected Pesticides (mg/kg)
33.7	Chromium (mg/kg)
718	Lead (mg/kg)

Note:
Red text indicates one or more compounds detected above Regulatory Standards (NYSDEC CP-51/Part 375,6.8 (a))
NA- Not Applicable

KEY

B (S) = Boring Locations-Soil sample
B (SGB) = Boring Locations-Soil + Groundwater samples
B(SV) = Boring Locations-Soil Vapor samples
B (DEC) = Soil Boring Locations for NYSDEC Spill 1205164 Closure (B 4-6, B19-21)

N E S W

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Tax Block: 1713
Tax Lot: 7

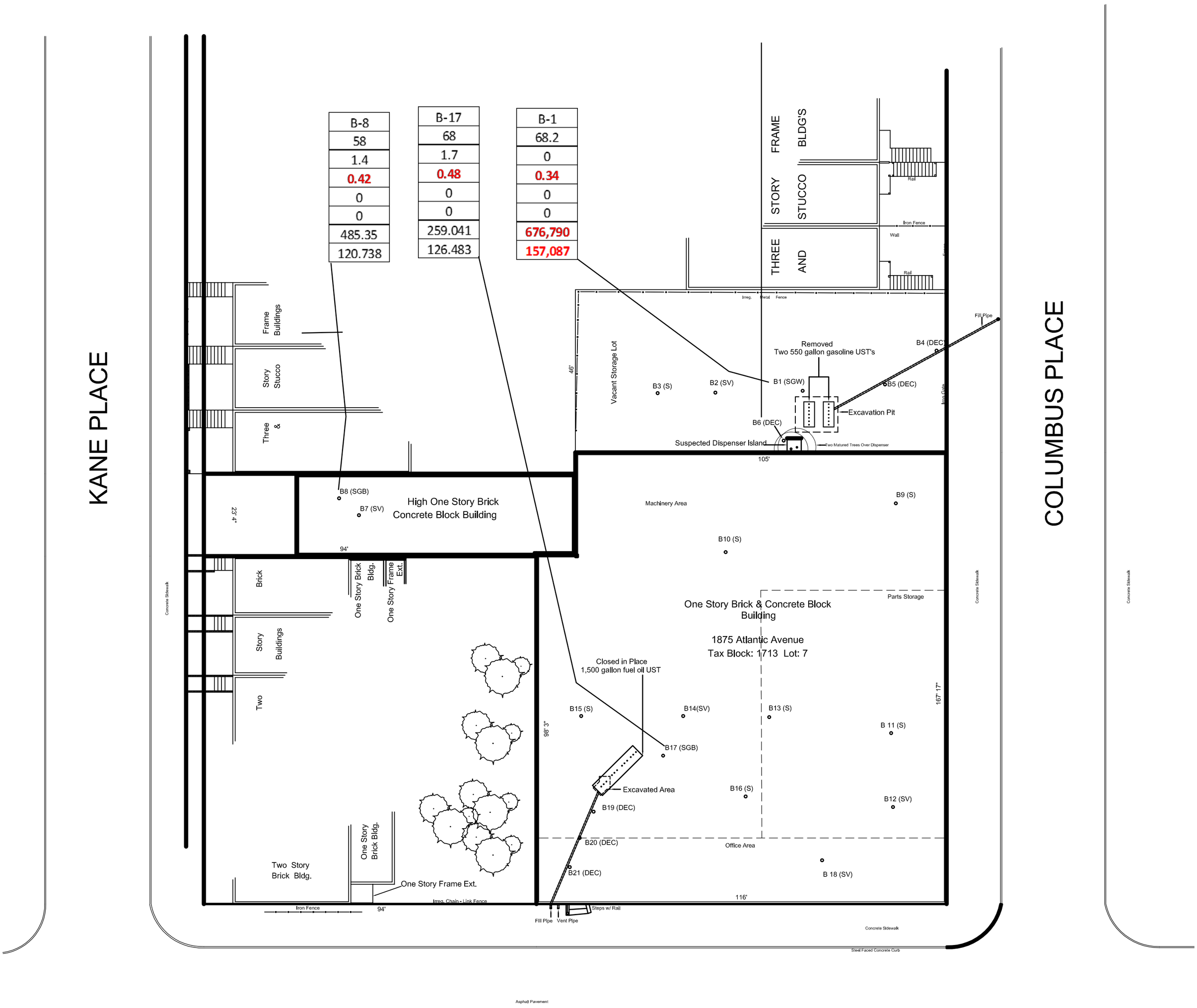
SOIL RESULTS MAP

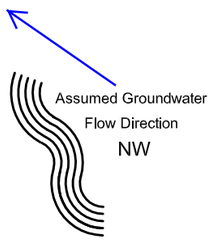
GCE PROJECT NO: **13-103-00**

DRAWN BY: TR Revella

0 25 50 Feet
SCALE

GROUNDWATER RESULTS MAP





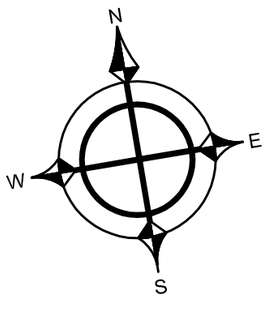
Legend

B-1	Sample ID
68.2	Depth (Feet)
0	Total Detected VOCs (ug/l)
0.34	Total Detected SVOCs (ug/l)
0	Total Detected PCBs (ug/l)
0	Total Detected Pesticides (ug/l)
676,790	Total Detected Metals Unfiltered (ug/l)
157,087	Total Detected Metals Dissolved (ug/l)

Note:
Red text indicates one or more compounds detected above Regulatory Standards (NYSDEC TOGS GW)

KEY

B (S) = Boring Locations-Soil sample
B (SGB) = Boring Locations-Soil + Groundwater samples
B(SV) = Boring Locations-Soil Vapor samples
B (DEC) = Soil Boring Locations for NYSDEC Spill 1205164 Closure (B 4-6, B19-21)



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GROUNDWATER RESULTS MAP

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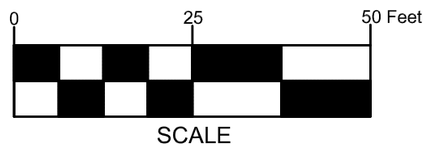
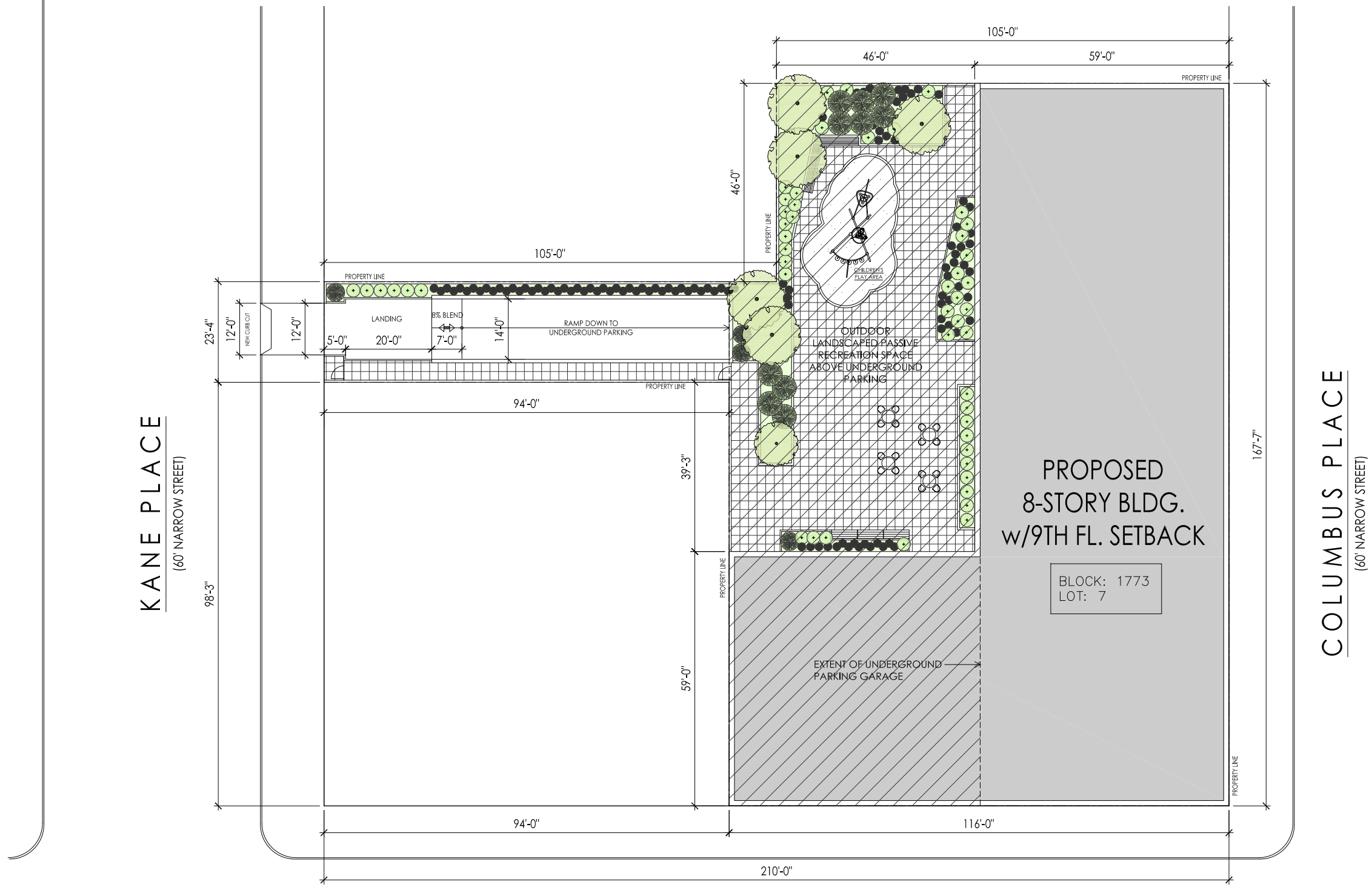




SITE PLAN

SLCE*Architects*
1359 BROADWAY NEW YORK, NEW YORK 10018

ATLANTIC-COLUMBUS APARTMENTS
BROOKLYN, NEW YORK

SITE PLAN
#TBD
JULY 25, 2013

A-1

Table 1: Summary of Detected Compounds- Soil

G C Environmental, Inc Job Address 1875 Atlantic Avenue Brooklyn, New York Project Id : 13-070-00	Lab Sample Id Collection Date Client Id Matrix Units	BD70309 5/7/2013 SB-1 (0-2) Soil Result	BD70310 5/2/2013 SB-1 (12-14) Soil Result	BD70311 5/2/2013 SB-3 (0-2) Soil Result	BD70312 5/2/2013 SB-3 (12-14) Soil Result	BD70313 5/6/2013 SB-8 (0-2) Soil Result	BD70314 5/6/2013 SB-8 (12-14) Soil Result	BD70315 5/3/2013 SB-9 (0-2) Soil Result	BD70316 5/3/2013 SB-9 (12-14) Soil Result	BD70317 5/2/2013 SB-10 (0-2) Soil Result	BD70318 5/2/2013 SB-10 (12-14) Soil Result	BD70273 5/3/2013 SB-11 (0-2) Soil Result	BD70274 5/3/2013 SB-11 (5-7) Soil Result	BD70275 5/6/2013 SB-13 (0-2) Soil Result	BD70276 5/6/2013 SB-13 (5-7) Soil Result	BD70277 5/2/2013 SB-15 (0-2) Soil Result	BD70278 5/2/2013 SB-15 (12-14) Soil Result	BD70279 5/3/2013 SB-16 (0-2) Soil Result	BD70280 5/3/2013 SB-16 (12-14) Soil Result	BD70281 5/7/2013 SB-17 (0-2) Soil Result	BD70282 5/7/2013 SB-17 (12-14) Soil Result	CP-51 NYSDEC Soil Cleanup Guidance	NYSDEC Part 375-6.8(a) Unrestricted Use Soil Cleanup Objective Unresticted Use
Metals, Total																							
Aluminum	mg/Kg	7,180	6,320	6,550	11,500	10,500	10,000	11,900	8,680	5,950	10,800	9,360	9,030	9,430	7,870	6,870	11,000	10,400	8,100	9,730	8,200	ns	ns
Antimony	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ns	ns
Arsenic	mg/Kg	**20.6**	2	3.3	2.4	5.7	2.8	2.7	2.1	1.9	3.1	3.1	3.2	2.5	2.2	5	2.5	3	2.4	2.7	2.3	7.5	13
Barium	mg/Kg	224	40.2	109	40.8	123	35.7	36.2	33.7	33.8	35.6	113	107	53.6	33.4	107	47.6	38.8	38.3	153	53.1	300	350
Beryllium	mg/Kg	ND	**0.39**	0.36	0.59	0.55	0.42	0.42	0.48	0.42	0.64	0.44	0.38	0.42	0.65	0.33	0.49	0.61	0.46	**0.44**	**0.45**	0.16	7.2
Cadmium	mg/Kg	**2.18**	0.4	0.63	ND	0.64	0.47	0.38	0.42	0.59	0.48	0.5	0.45	0.4	0.46	0.86	0.44	0.62	0.37	0.5	ND	1	2.5
Calcium	mg/Kg	6,790	1,730	7,690	1,170	2,050	502	654	1,400	1,380	578	1,130	1,200	937	555	2,320	2,400	634	887	7,900	836	ns	ns
Chromium	mg/Kg	**33.7**	**17**	17.8	20.8	22.9	24.2	23.6	20.8	16.2	**30.1**	21.2	20.4	25	25.5	15.2	24.4	25.4	22	**16.1**	**18.2**	10	30
Cobalt	mg/Kg	9.08	5.97	6.67	4.96	8.87	9.65	7.22	7.2	6.5	12.1	5.1	4.67	8.22	9.61	4.74	6.12	16.1	6.35	4.68	5.88	30	ns
Copper	mg/Kg	**94.6**	13.4	28.9	13.4	41.1	15.6	10.7	16.4	17.3	11.6	31.5	31	15.9	16.3	**119**	19.8	20.6	15.9	12.5	13.1	25	50
Iron	mg/Kg	**99,100**	**24,800**	29,400	14,800	26,700	29,800	22,900	26,200	23,400	31,000	24,400	23,400	24,600	28,400	15,000	24,500	41,600	22,200	**16,900**	**19,500**	2000	ns
Lead	mg/Kg	**718**	5.95	**283**	6.71	**259**	7.02	7.52	6.1	6.87	7.2	**266**	**205**	40.3	7.81	**116**	22.9	6.76	5.45	**300**	10.9	ns	63
Magnesium	mg/Kg	1,320	1,730	1,790	1,320	2,250	2,070	1,960	2,290	1,830	1,800	1,650	1,930	1,810	1,520	2,310	3,590	2,340	2,250	2,840	1,780	ns	ns
Manganese	mg/Kg	681	578	608	112	512	798	287	518	644	450	293	354	557	669	254	578	653	403	303	451	ns	1600
Mercury	mg/Kg	**2.56**	ND	**0.38**	ND	**0.98**	ND	ND	ND	ND	ND	**0.62**	**0.45**	ND	ND	0.18	ND	ND	ND	**0.17**	ND	0.1	0.18
Nickel	mg/Kg	**21.3**	11.6	12.2	9.26	16.2	11.5	11.8	11.7	12.1	11.9	12.4	12.9	13	12.1	19.7	17.4	15.8	11.4	10.5	10.1	13	30
Potassium	mg/Kg	785	970	1,050	691	1,170	1,120	617	1,260	1,170	761	796	972	874	894	805	1,430	1,340	1,050	612	936	ns	ns
Selenium	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	3.9
Silver	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ns	2
Sodium	mg/Kg	84	116	98.2	75.1	116	52.6	64.3	77.3	151	56.8	131	136	77	51.7	301	131	122	111	234	97.1	ns	ns
Thallium	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ns	ns
Vanadium	mg/Kg	24.5	32.9	26.5	28.1	31.3	44.7	32	38.2	27	38.4	33.5	29.1	30.3	33.8	20.4	32.3	36.4	30	24.6	28.9	150	ns
Zinc	mg/Kg	**1,180**	**28.2**	105	21	**142**	31	44.3	29.6	**124**	24.2	84.6	72.7	46.2	34.2	**187**	53	34.6	27.3	**165**	**27.4**	20	109
PCBs By SW 8082																							
PCB-1260	mg/Kg	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ns	NA
Volatiles By SW8260																							
Naphthalene	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.79	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	12	ns
sec-Butylbenzene	mg/Kg	ND	0.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	11
Semivolatiles By SW8270																							
Acenapthane	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	20
Anthracene	mg/Kg	ND	ND	ND	ND	0.7	ND	ND	ND	ND	ND	0.46	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	100
Benzo(a)anthracene	mg/Kg	ND	ND	ND	ND	**2.1**	ND	ND	ND	ND	ND	**1.1**	0.45	0.29	ND	0.52	ND	ND	ND	0.29	ND	1	1
Benzo(a)pyrene	mg/Kg	ND	ND	ND	ND	**2.2**	ND	ND	ND	ND	ND	0.96	0.44	ND	ND	0.46	ND	ND	ND	0.28	ND	1	1
Benzo(b)fluoranthene	mg/Kg	ND	ND	ND	ND	**2.7**	ND	ND	ND	ND	ND	**1.2**	0.54	0.31	ND	0.67	ND	ND	ND	0.37	ND	1	1
Benzo(ghi)perylene	mg/Kg	ND	ND	ND	ND	1.6	ND	ND	ND	ND	ND	0.65	0.31	ND	ND	0.34	ND	ND	ND	ND	ND	100	100
Benzo(k)fluoranthene	mg/Kg	ND	ND	ND	ND	**0.95**	ND	ND	ND	ND	ND	0.49	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	0.8
Chrysene	mg/Kg	ND	ND	ND	ND	**2.3**	ND	ND	ND	ND	ND	**1.1**	0.48	0.31	ND	0.59	ND	ND	ND	0.32	ND	1	1
Dibenzo(a,h)anthracene	mg/Kg	ND	ND	ND	ND	**0.37**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.33	0.33
Fluoranthene	mg/Kg	ND	ND	7.3	ND	5.3	ND	ND	ND	ND	ND	2.5	1.1	0.62	ND	1.2	0.33	ND	ND	0.84	ND	100	100
Indeno(1,2,3-cd)pyrene	mg/Kg	ND	ND	ND	ND	**1.3**	ND	ND	ND	ND	ND	**0.52**	ND	ND	ND	0.26	ND	ND	ND	ND	ND	0.5	0.5
Naphthalene	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.29	ND	ND	ND	0.62	ND	ND	ND	ND	ND	12	12
Phenanthrene	mg/Kg	ND	ND	ND	ND	3.6	ND	ND	ND	ND	ND	2.4	0.97	0.4	ND	1.2	0.35	ND	ND	0.38	ND	100	100
Pyrene	mg/Kg	7.7	ND	8.8	ND	5.4	ND	ND	ND	ND	ND	2.1	0.94	0.53	ND	1	0.3	ND	ND	0.81	ND	100	100
Pesticides By SW8081																							
4,4'-DDD	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.096**	**0.049**	ND	ND	ND	ND	ND	ND	ND	0.14	ND	2.9	0.0033
4,4' -DDE	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND	2.1	0.0033
Dieldrin	mg/Kg	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.014**	ND	ND	ND	ND	ND	ND	ND	ND	0.041	ND	0.044	0.005

Compounds Detected Above Standards	**Bold**
Not Detected	ND
No Standards	ns
Not Applicable	NA

Note: Compounds detected lower than lab reporting limits are considered not detected
Note: For Metals compounds not having standards in CP-51 were compared with Part 375 Regulatory Standards
Note: SB-1 and SB-17 were compared to both CP-51 Guidance & Part 375- 6.8 (a) Unrestricted Soil Use Standards

Table 2: Summary of Detected Compounds- Groundwater

G C Environmental, Inc Job Address 1875 Atlantic Avenu Brooklyn New York Project Id : 13-103-00	Lab Sample Id Collection Date Client Id Matrix Units	BD69296 5/7/2013 SB-1 GW1 Ground Water Result	BD69297 5/7/2013 SB-8 GW2 Ground Water Result	BD69298 5/7/2013 SB-17 GW3 Ground Water Result	TOGS Ambient Water Quality Standards ug/l
Metals, Total					
Aluminum	ug/L	80200	32.9	34.8	ns
Aluminum (Dissolved)	ug/L	100	0.06	0.16	ns
Antimony	ug/L	ND	ND	ND	3
Antimony (Dissolved)	ug/L	ND	ND	ND	3
Arsenic	ug/L	**37**	0.1	ND	25
Arsenic (Dissolved)	ug/L	4	0.011	0.004	25
Barium	ug/L	826	0.44	0.332	1000
Barium (Dissolved)	ug/L	47	0.029	0.047	1000
Beryllium	ug/L	6	0.003	0.002	ns
Beryllium (Dissolved)	ug/L	ND	ND	ND	ns
Cadmium	ug/L	**6**	0.003	0.002	5
Cadmium (Dissolved)	ug/L	ND	ND	ND	5
Calcium	ug/L	108000	56.3	61.5	ns
Calcium (Dissolved)	ug/L	79800	43.7	55.5	ns
Chromium	ug/L	**915**	0.86	0.277	50
Chromium (Dissolved)	ug/L	2	ND	ND	50
Cobalt	ug/L	179	0.114	0.066	ns
Cobalt (Dissolved)	ug/L	6	0.014	0.005	ns
Copper	ug/L	**777**	3.26	0.164	200
Copper (Dissolved)	ug/L	ND	0.023	ND	200
Iron	ug/L	**289000**	143	82.1	300
Iron (Dissolved)	ug/L	255	0.032	0.172	300
Lead	ug/L	**152**	0.103	0.078	25
Lead (Dissolved)	ug/L	ND	ND	ND	25
Magnesium	ug/L	104000	56	63.1	ns
Magnesium (Dissolved)	ug/L	42200	29.4	32.7	ns
Manganese	ug/L	**15400**	8.26	4.96	300
Manganese (Dissolved)	ug/L	**841**	1.83	0.883	300
Mercury	ug/L	ND	ND	ND	0.7
Mercury (Dissolved)	ug/L	ND	ND	ND	0.7
Nickel	ug/L	**1380**	1.42	0.563	100
Nickel (Dissolved)	ug/L	72	0.149	0.062	100
Potassium	ug/L	25600	12.6	13.4	ns
Potassium (Dissolved)	ug/L	4400	4.8	3.6	ns
Selenium	ug/L	ND	ND	ND	10
Selenium (Dissolved)	ug/L	ND	ND	ND	10
Silver	ug/L	ND	ND	ND	50
Silver (Dissolved)	ug/L	ND	ND	ND	50
Sodium	ug/L	34300	42.9	33	ns
Sodium (Dissolved)	ug/L	28300	35.7	33.3	ns
Thallium	ug/L	ND	ND	ND	ns
Thallium (Dissolved)	ug/L	ND	ND	ND	ns
Vanadium	ug/L	212	0.091	0.098	ns
Vanadium (Dissolved)	ug/L	ND	ND	ND	ns
Zinc	ug/L	15800	127	0.599	ns
Zinc (Dissolved)	ug/L	1060	4.99	0.05	ns
PCBs By 8082	ug/L	ND	ND	ND	NA*
Volatiles By SW8260					
Chloroform	ug/L	ND	1.4	1.7	7
Semivolatiles By SW8270 (SIM)					
Acenaphthylene	ug/L	0.06	0.09	0.07	20
Benz(a)anthracene	ug/L	**0.05**	**0.07**	**0.05**	0.002
Benzo(a)pyrene	ug/L	ND	0.03	0.02	ns
Benzo(b)fluoranthene	ug/L	**0.02**	**0.05**	**0.04**	0.002
Benzo(k)fluoranthene	ug/L	ND	**0.02**	ND	0.002
Chrysene	ug/L	**0.03**	**0.05**	**0.03**	0.002
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	ns
Hexachlorobenzene	ug/L	ND	ND	ND	0.35
Indeno(1,2,3-cd)pyrene	ug/L	**0.08**	ND	ND	0.002
Phenanthrene	ug/L	0.1	0.11	0.27	50
Pesticides By SW8081	ug/L	ND	ND	ND	NA*

Compounds Detected above Standards	**Bold**
Not Detected	ND
No Standards	ns
Not Applicable	NA

*Note: TOGS has groundwater standards for PCBs and Pesticides. Since compounds of PCBs & Pesticides were not detected in this case, they are reffered as NA

Table 3: Summary of Detected Compounds- Soil Vapor

G C Environmental, Inc Job Address 1875 Atlantic Avenue Brooklyn, New York Project Id : 13-103-00	Lab Sample Id Collection Date Client Id Matrix Units	BD69303 5/6/2013 S2-SOIL VAPOR 1 Air Result	BD69302 5/6/2013 S7-SOIL VAPOR 2 Air Result	BD69301 5/6/2013 S12-SOIL VAPOR 3 Air Result	BD69300 5/6/2013 S18-SOIL VAPOR 4 Air Result	BD69299 5/6/2013 S14-SOIL VAPOR 5 Air Result	NYSDOH Matrices Matrix 1 Trichloroethene Result	NYSDOH Matrices Matrix 1 Tetrachloroethene Result	NYSDOH Matrices Matrix 2 Carbontetrachloride Result
Volatiles (TO15) By TO15									
1,2,4-Trimethylbenzene	ug/m3	99.2	132	88.9	84	70.2	ns	ns	ns
1,3,5-Trimethylbenzene	ug/m3	26.9	38	23.4	25.2	19.4	ns	ns	ns
4-Ethyltoluene	ug/m3	23.2	38.1	19.6	24	50.1	ns	ns	ns
4-Isopropyltoluene	ug/m3	7.79	8.06	6.97	7.08	3.51	ns	ns	ns
4-Methyl-2-pentanone(MIBK)	ug/m3	2.78	1.88	1.02	1.68	ND	ns	ns	ns
Acetone	ug/m3	437	142	81.2	356	193	ns	ns	ns
Benzene	ug/m3	10.4	11.7	6.64	8.62	28.3	ns	ns	ns
Bromodichloromethane	ug/m3	ND	ND	1.2	ND	ND	ns	ns	ns
Carbon Disulfide	ug/m3	14.7	11.4	ND	1.21	152	ns	ns	ns
Carbon Tetrachloride	ug/m3	0.377	0.377	ND	ND	ND	ns	ns	5
Chloroform	ug/m3	ND	3.56	20.9	ND	ND	ns	ns	ns
Chloromethane	ug/m3	1.01	ND	ND	ND	ND	ns	ns	ns
Cyclohexane	ug/m3	11.5	10.8	4.16	10.2	17.4	ns	ns	ns
Dichlorodifluoromethane	ug/m3	1.88	2.77	2.17	2.32	1.28	ns	ns	ns
Ethanol	ug/m3	9.7	17.6	9.64	12.8	16.8	ns	ns	ns
Ethylbenzene	ug/m3	42.2	72	30.9	40.9	26.6	ns	ns	ns
Heptane	ug/m3	23.8	24.3	11.1	19.4	31.2	ns	ns	ns
Hexane	ug/m3	19	24.9	11.6	21.4	24.6	ns	ns	ns
Isopropylalcohol	ug/m3	2.82	4.15	3.68	4.42	ND	ns	ns	ns
Isopropylbenzene	ug/m3	6.44	8.84	4.67	26.7	5.06	ns	ns	ns
m,p-Xylene	ug/m3	168	258	126	158	100	ns	ns	ns
Methyl Ethyl Ketone	ug/m3	65.1	53.6	51.6	33.9	43.6	ns	ns	ns
Methylene Chloride	ug/m3	8.37	3.51	2.36	3.92	2.95	ns	ns	ns
n-Butylbenzene	ug/m3	14.9	14.6	13.2	12.6	10.4	ns	ns	ns
o-Xylene	ug/m3	69.4	134	52.1	70.3	54.7	ns	ns	ns
Propylene	ug/m3	96.3	27.2	3.03	5.16	193	ns	ns	ns
sec-Butylbenzene	ug/m3	4.83	4.39	3.84	4.77	4.72	ns	ns	ns
Styrene	ug/m3	2.04	1.87	1.45	1.87	ND	ns	ns	ns
Tetrachloroethene	ug/m3	2.78	2.44	17.6	28.9	2.3	ns	100	ns
Tetrahydrofuran	ug/m3	16.2	24.8	15.7	22.6	18.9	ns	ns	ns
Toluene	ug/m3	86.2	246	61	86.6	143	ns	ns	ns
Trichloroethene	ug/m3	ND	ND	ND	ND	0.376	5	ns	ns
Trichlorofluoromethane	ug/m3	ND	1.12	ND	ND	ND	ns	ns	ns

Compounds detected above Standards	**ND**
Not Detected	ND
No Standards	ns

Note: Trichloroethene, Tetrachloroethene and carbontetrachloride only have NYSDOH Standards/Matrices

Table 4: Summary of Detected Compounds- NYSDEC Soil samples

G C Environmental, Inc Job Address 1875 Atlantic Avenue Brooklyn, New York Project Id : 13-103-00	Lab Sample Id Collection Date Client Id Matrix Units	BD70283 5/2/2013 SB-4 5-10 Soil Result	BD70284 5/2/2013 SB-5 5-10 Soil Result	BD70285 5/2/2013 SB-6 5-10 Soil Result	BD70286 5/2/2013 SB-19 5-10 Soil Result	BD70287 5/2/2013 SB 20 5-10 Soil Result	BD70288 5/2/2013 SB-21 5-10 Soil Result	NYSDEC CP-51 Soil Cleanup Guidance Result
Volatiles By SW8260	mg/kg	ND	ND	ND	ND	ND	ND	NA*
Semivolatiles By SW8270								
Fluorene	mg/Kg	0.65	ND	ND	ND	ND	ND	30
Phenanthrene	mg/Kg	0.99	ND	ND	ND	ND	ND	100

Compounds Detected above Standards	**Bold**
Not Detected	ND
Not Applicable	NA

*Note: CP 51 has Guidance values for Volatiles. Since no volatiles were detected in this case, it is reffered as NA.

Table 5
Soil Vapor Investigation Log (05/06/13)
1875 Atlantic Avenue, Brooklyn, NY
GCE Project No. 13-103-00

Sample ID	Canister No	Regulator No	Regulator Flow (ml/min)	Start Time	End Time	Total Hours	Helium Test
S 2 Soil Vapor 1	13643	5648	41.6	12:10	2:20	2	<1%
S 7 Soil Vapor 2	12858	4985	41.6	12:10	2:10	2	<1%
S 12 Soil Vapor 3	215	5650	41.6	12:00	2:00	2	<1%
S 18 Soil Vapor 4	11287	5656	41.6	11:50	1:50	2	<1%
S 14 Soil Vapor 5	221	5350	41.6	11:45	1:45	2	<1%

Table 6: Groundwater Sampling Details

Well ID Number	Date	Weather Condition	Purge volume (gal/ft)	pH	Dissolved Oxygen (mg/l)	Temperature (F)	Specific Conductance (mS/CM)	Depth from the top of the casing to the water (ft)
MW-1	5/7/2013	Sunny, 63F	0.163 gal/ft	7.21	0.03	61.9	0.492	68.2
MW-2	5/7/2013	Sunny, 63F	0.163 gal/ft	7.07	0.03	61.8	0.465	58
MW-3	5/7/2013	Sunny, 63F	0.163 gal/ft	6.98	0.2	61.5	0.475	68

APPENDIX A

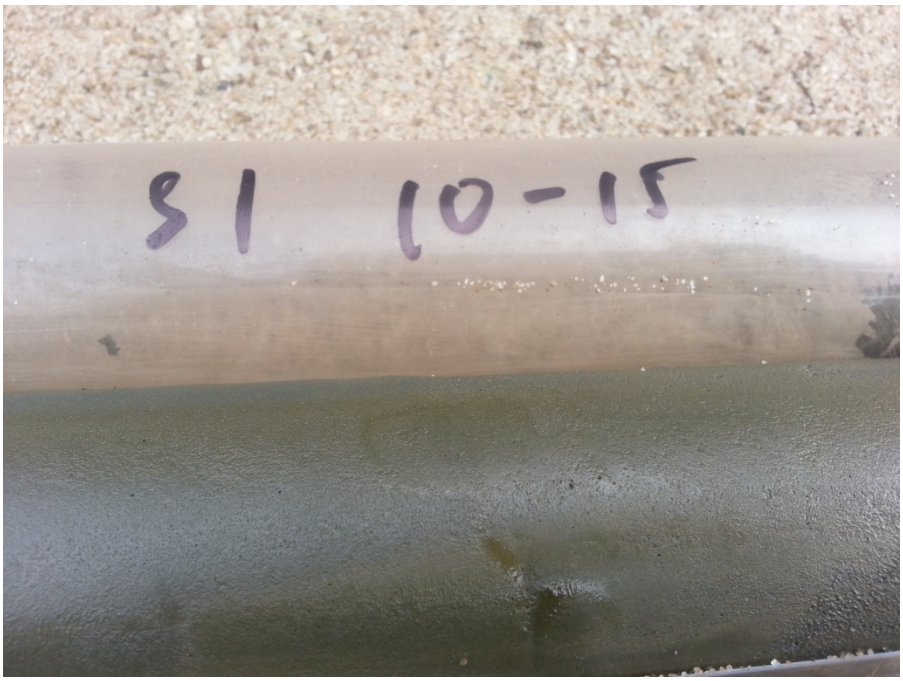
Phase II ESA Photo log

1. 1875 Atlantic Avenue-Property Building

2. Utility mark out using GPR equipment & soil boring location

3. Soil boring in B-1 location-exterior of the building/storage area

4. B-1 location- soil sleeves



5. Soil staining in B-1 (10-15 feet) sample

6. Field testing-PID reading of 10.3 ppm in B-1 (12-14 feet) sample.

7. Soil boring interior of the building- office area

8. Soil boring using hand auger

9. Typical boring view

10. Typical soil sleeves from interior of the building.

11. Helium gas leak detection- soil vapor location.

12. Soil vapor sampling using SUMMA canister

13. Typical groundwater sampling

14. Groundwater sampling-Purging & field testing

15. Samples prepared for lab pickup

16. Site restoration- seal of borings

APPENDIX B

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR BORING CONTRACTOR: G C ENVIRONMENTAL INC FOREMAN: GIGI	BORING/MW NO: B 1 LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK DATE: MAY 07,2013	GROUND ELEVATION: TOP OF CASING ELEVATION:

CASING: SIZE: HAMMER: FALL:	SAMPLER: TYPE: GEOPROBE 6610DT HAMMER: FALL:	GROUNDWATER LEVEL READINGS: DATE: MAY 07,2013 DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				85%			CONCRETE AND STONES		5.1	PETROLEUM ODOR OR STAINING WAS DETECTED
						FILL	DARK GREY CLAY MATERIAL			
5				95%		CLAY	DARK GREY CLAY MATERIAL		5.3	PETROLEUM ODOR OR STAINING WAS DETECTED
10				95%		95%	DARK GREY CLAY MATERIAL		10.3	PETROLEUM ODOR OR STAINING WAS DETECTED
15				95%			DARK GREY CLAY MATERIAL		MONITORING WELL INSTALLED TO 60 FT	NO PETROLEUM ODOR OR STAINING WAS DETECTED
20							END OF BORE HOLE AT 60 FEET			

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-1

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: GIGI

BORING/MW NO: B 3

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 02, 2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:

SIZE:

HAMMER:

FALL:

SAMPLER:

TYPE: GEOPROBE 6610DT

HAMMER:

FALL:

GROUNDWATER LEVEL READINGS:

DATE: MAY 02, 2013

DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				85%			CONCRETE AND STONES		2.4	PETROLEUM ODOR OR STAINING WAS DETECTED
						FILL	DARK GREY CLAY MATERIAL			
5				75%		CLAY	DARK GREY CLAY MATERIAL		0.3	NO PETROLEUM ODOR OR STAINING WAS DETECTED
10				75%			SHINY BROWN RED MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
15							END OF BORE HOLE			
20										

NOTES:

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SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-3

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR BORING CONTRACTOR: G C ENVIRONMENTAL INC FOREMAN: GIGI	BORING/MW NO: B 4 LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK DATE: MAY 02, 2013	GROUND ELEVATION: TOP OF CASING ELEVATION:

CASING: SIZE: HAMMER: FALL:	SAMPLER: TYPE: GEOPROBE 6610DT HAMMER: FALL:	GROUNDWATER LEVEL READINGS: DATE: MAY 02, 2013 DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
				85%			CONCRETE AND STONES		3.1	PETROLEUM ODOR OR STAINING WAS DETECTED
0						FILL	DARK GREY CLAY MATERIAL			
5						CLAY	DARK GREY CLAY MATERIAL			
				75%					1.3	PETROLEUM ODOR OR STAINING WAS DETECTED
10							END OF BORE HOLE			
15										
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
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SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-4

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR BORING CONTRACTOR: G C ENVIRONMENTAL INC FOREMAN: GIGI	BORING/MW NO: B 5 LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK DATE: MAY 02, 2013	GROUND ELEVATION: TOP OF CASING ELEVATION:

CASING: SIZE: HAMMER: FALL:	SAMPLER: TYPE: GEOPROBE 6610DT HAMMER: FALL:	GROUNDWATER LEVEL READINGS: DATE: MAY 02, 2013 DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INST ALLATION	FIELD TESTING (PPM)	NOTES
0				75%			CONCRETE AND STONES		3.1	PETROLEUM ODOR OR STAINING WAS DETECTED
						FILL	DARK GREY CLAY MATERIAL			
5				75%		CLAY	DARK GREY CLAY MATERIAL		1.3	NO PETROLEUM ODOR OR STAINING WAS DETECTED
10							END OF BORE HOLE			
15										
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-5

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: GIGI

BORING/MW NO: B 6

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 02, 2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:

SIZE:

HAMMER:

FALL:

SAMPLER:

TYPE: GEOPROBE 6610DT

HAMMER:

FALL:

GROUNDWATER LEVEL READINGS:

DATE: MAY 02, 2013

DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				65%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
						FILL	LIGHT GREY CLAY MATERIAL			
5						CLAY	LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
				60%						
10							END OF BORE HOLE			
15										
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-6

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR BORING CONTRACTOR: G C ENVIRONMENTAL INC FOREMAN: GIGI	BORING/MW NO: B 8 LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK DATE: MAY 06, 2013	GROUND ELEVATION: TOP OF CASING ELEVATION:

CASING: SIZE: HAMMER: FALL:	SAMPLER: TYPE: GEOPROBE 6610DT HAMMER: FALL:	GROUNDWATER LEVEL READINGS: DATE: MAY 06, 2013 DEPTH: 58 FT

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				85%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
						CLAY	DARK GREY CLAY MATERIAL			
20				75%			DARK GREY CLAY MATERIAL			NO PETROLEUM ODOR OR STAINING WAS DETECTED
40				75%			DARK GREY CLAY MATERIAL			NO PETROLEUM ODOR OR STAINING WAS DETECTED
60							END OF BORE HOLE	MONITORING WELL		
80										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-8

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: GIGI

BORING/MW NO: B 9

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 03, 2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:

SIZE:

HAMMER:

FALL:

SAMPLER:

TYPE: GEOPROBE 6610DT

HAMMER:

FALL:

GROUNDWATER LEVEL READINGS:

DATE: MAY 03, 2013

DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				65%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
						CLAY	LIGHT BROWN CLAY MATERIAL			
5				70%			LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
10				60%			LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
15							END OF BORE HOLE			
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-9

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: GIGI

BORING/MW NO: B 10

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 02, 2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:

SIZE:

HAMMER:

FALL:

SAMPLER:

TYPE: GEOPROBE 6610DT

HAMMER:

FALL:

GROUNDWATER LEVEL READINGS:

DATE: MAY 02, 2013

DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				65%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
						CLAY	LIGHT BROWN CLAY MATERIAL			
5				70%			LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
10				70%			LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
15							END OF BORE HOLE			
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-10

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: TOM

BORING/MW NO: B 11

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 03, 2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:

SIZE:

HAMMER:

FALL:

SAMPLER:

TYPE: HAND AUGER

HAMMER:

FALL:

GROUNDWATER LEVEL READINGS:

DATE: MAY 03, 2013

DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INST ALLATION	FIELD TESTING (PPM)	NOTES
0				65%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
							LIGHT BROWN CLAY MATERIAL			
5						CLAY				
				70%			LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
							END OF BORE HOLE			
10										
15										
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-11

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: TOM

BORING/MW NO: B 13

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 07, 2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:

SIZE:

HAMMER:

FALL:

SAMPLER:

TYPE: HAND AUGER

HAMMER:

FALL:

GROUNDWATER LEVEL READINGS:

DATE: MAY 07, 2013

DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				65%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
							LIGHT BROWN CLAY MATERIAL			
5						CLAY				
				70%			LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
							END OF BORE HOLE			
10										
15										
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-13

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: GIGI

BORING/MW NO: B 15

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 02, 2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:

SIZE:

HAMMER:

FALL:

SAMPLER:

TYPE: GEOPROBE 6610DT

HAMMER:

FALL:

GROUNDWATER LEVEL READINGS:

DATE: MAY 02, 2013

DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INST ALLATION	FIELD TESTING (PPM)	NOTES
0				65%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
							LIGHT BROWN CLAY MATERIAL			
5						CLAY				
				70%			LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
10				70%						
							LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
15							END OF BORE HOLE			
20										

NOTES:

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ENVIRONMENTAL CONSULTANTS

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SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-15

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: GIGI

BORING/MW NO: B 16

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 03, 2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:

SIZE:

HAMMER:

FALL:

SAMPLER:

TYPE: GEOPROBE 6610DT

HAMMER:

FALL:

GROUNDWATER LEVEL READINGS:

DATE: MAY 03, 2013

DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				65%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
						CLAY	LIGHT BROWN CLAY MATERIAL			
5				65%			LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
10				60%			LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
15							END OF BORE HOLE			
20										

NOTES:

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ENVIRONMENTAL CONSULTANTS

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SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-16

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: GIGI

BORING/MW NO: B 17

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 07,2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:

SIZE:

HAMMER:

FALL:

SAMPLER:

TYPE: GEOPROBE 6610DT

HAMMER:

FALL:

GROUNDWATER LEVEL READINGS:

DATE: MAY 07,2013

DEPTH: 68 FT

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				85%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
						CLAY	DARK GREY CLAY MATERIAL			
20				75%			DARK GREY CLAY MATERIAL			NO PETROLEUM ODOR OR STAINING WAS DETECTED
40				75%			DARK GREY CLAY MATERIAL			NO PETROLEUM ODOR OR STAINING WAS DETECTED
60				65%				MONITORING WELL		
80							END OF BORE HOLE			

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-17

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR

BORING CONTRACTOR: G C ENVIRONMENTAL INC

FOREMAN: GIGI

BORING/MW NO: B 19

LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK

DATE: MAY 03, 2013

GROUND ELEVATION:

TOP OF CASING ELEVATION:

CASING:
SIZE:
HAMMER:
FALL:

SAMPLER:
TYPE: GEOPROBE 6610DT
HAMMER:
FALL:

GROUNDWATER LEVEL READINGS:
DATE: MAY 03, 2013
DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INST ALLATION	FIELD TESTING (PPM)	NOTES
0				60%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
						FILL	LIGHT GREY CLAY MATERIAL			
5						CLAY	LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
				60%						
10							END OF BORE HOLE			
15										
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-19

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR BORING CONTRACTOR: G C ENVIRONMENTAL INC FOREMAN: GIGI	BORING/MW NO: B 20 LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK DATE: MAY 03, 2013	GROUND ELEVATION: TOP OF CASING ELEVATION:

CASING: SIZE: HAMMER: FALL:	SAMPLER: TYPE: GEOPROBE 6610DT HAMMER: FALL:	GROUNDWATER LEVEL READINGS: DATE: MAY 03, 2013 DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INST ALLATION	FIELD TESTING (PPM)	NOTES
0				70%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
						FILL	LIGHT GREY CLAY MATERIAL			
5						CLAY	LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
				60%						
10							END OF BORE HOLE			
15										
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-20

BORING/MONITORING WELL LOG

FIELD GEOLOGIST: RAVI KUMAR BORING CONTRACTOR: G C ENVIRONMENTAL INC FOREMAN: TOM	BORING/MW NO: B 21 LOCATION: 1875 ATLANTIC AVENUE BROOKLYN NEW YORK DATE: MAY 06, 2013	GROUND ELEVATION: TOP OF CASING ELEVATION:

CASING: SIZE: HAMMER: FALL:	SAMPLER: TYPE: HAND AUGER HAMMER: FALL:	GROUNDWATER LEVEL READINGS: DATE: MAY 06, 2013 DEPTH:

SAMPLE DEPTH (FT)	CAS BL/FT	NO	DEPTH (FT)	PEN/REC	BLOWS		SAMPLE DESCRIPTION	WELL INSTALLATION	FIELD TESTING (PPM)	NOTES
0				70%			CONCRETE AND STONES		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
						FILL	LIGHT GREY CLAY MATERIAL			
5				60%		CLAY	LIGHT GREY CLAY MATERIAL		0.0	NO PETROLEUM ODOR OR STAINING WAS DETECTED
							END OF BORE HOLE			
10										
15										
20										

NOTES:

G. C. ENVIRONMENTAL, INC.
ENVIRONMENTAL CONSULTANTS

22 Oak Street Bay Shore NY
Tel: 631-206-3700 Fax: 631-206-3729

SOIL BORINGS

1875 ATLANTIC AVENUE
BROOKLYN, NEW YORK

GCE PROJECT NO:
13-070-00

DRAWING

B-21

APPENDIX C

PHOENIX
Environmental Laboratories, Inc.

Monday, May 20, 2013

Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Project ID: 13-070-00
Sample ID#s: BD70309 - BD70318

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

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

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

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

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

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

NY # 11301

SDG Comments

May 20, 2013

SDG I.D.: GBD70309

BD70309 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70310 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70311 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70312 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70313 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70314 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70315 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70316 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70317 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70318 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/07/13	11:35
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70309

Project ID: 13-070-00
Client ID: SB-1 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.42	0.42	mg/Kg	05/16/13	LK	SW6010	
Aluminum	7180	63	mg/Kg	05/16/13	LK	SW6010	
Arsenic	20.6	0.8	mg/Kg	05/16/13	LK	SW6010	
Barium	224	0.42	mg/Kg	05/16/13	LK	SW6010	
Beryllium	< 0.34	0.34	mg/Kg	05/16/13	LK	SW6010	
Calcium	6790	6.3	mg/Kg	05/16/13	LK	SW6010	
Cadmium	2.18	0.42	mg/Kg	05/16/13	LK	SW6010	
Cobalt	9.08	0.42	mg/Kg	05/16/13	LK	SW6010	
Chromium	33.7	0.42	mg/Kg	05/16/13	LK	SW6010	
Copper	94.6	0.42	mg/kg	05/16/13	LK	SW6010	
Iron	99100	63	mg/Kg	05/16/13	LK	SW6010	
Mercury	2.56	0.10	mg/Kg	05/16/13	RS	SW-7471	
Potassium	785	6.3	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1320	6.3	mg/Kg	05/16/13	LK	SW6010	
Manganese	681	4.2	mg/Kg	05/16/13	LK	SW6010	
Sodium	84	31	mg/Kg	05/20/13	LK	SW6010	
Nickel	21.3	0.42	mg/Kg	05/16/13	LK	SW6010	
Lead	718	4.2	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 4.2	4.2	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.7	1.7	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.8	3.8	mg/Kg	05/16/13	LK	SW6010	
Vanadium	24.5	0.42	mg/Kg	05/16/13	LK	SW6010	
Zinc	1180	4.2	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	84		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	JJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-1 (0-2)

Phoenix I.D.: BD70309

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	390	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	390	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	390	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	390	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	390	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	390	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	390	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	390	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	390	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	100		%	05/16/13	AW	30 - 150 %	
% TCMX	84		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	38	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	38	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	38	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	19	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	19	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.9	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	19	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	59	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	19	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.9	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	19	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	38	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	38	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	38	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	38	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	38	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.9	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	12	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	19	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	190	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	190	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	100		%	05/16/13	MH	30 - 150 %	
% TCMX	83		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloropropene	ND	300	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-1 (0-2)

Phoenix I.D.: BD70309

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromoethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloroethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloropropane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichloropropane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
2,2-Dichloropropane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
2-Chlorotoluene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
2-Hexanone	ND	1500	ug/Kg	05/15/13	R/J	SW8260	
2-Isopropyltoluene	ND	300	ug/Kg	05/15/13	R/J	SW8260	1
4-Chlorotoluene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	1500	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	1500	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	600	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	300	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	1500	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	600	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	300	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-1 (0-2)

Phoenix I.D.: BD70309

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	600	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	300	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	600	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	300	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	300	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	100		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	96		%	05/15/13	R/J	70 - 130 %	
% Toluene-d8	95		%	05/15/13	R/J	70 - 130 %	
Semivolatiles							
1,2-Dichlorobenzene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	6900	ug/Kg	05/19/13	DD	SW8270	
1,3-Dichlorobenzene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
1,4-Dichlorobenzene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
2,4-Dinitrotoluene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
2,6-Dinitrotoluene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
2-Chloronaphthalene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
2-Methylnaphthalene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
2-Nitroaniline	ND	29000	ug/Kg	05/19/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	40000	ug/Kg	05/19/13	DD	SW8270	
3-Nitroaniline	ND	29000	ug/Kg	05/19/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	6900	ug/Kg	05/19/13	DD	SW8270	
4-Chloroaniline	ND	6900	ug/Kg	05/19/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	6900	ug/Kg	05/19/13	DD	SW8270	
4-Nitroaniline	ND	29000	ug/Kg	05/19/13	DD	SW8270	
Acenaphthene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Acenaphthylene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Anthracene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Benz(a)anthracene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Benzidine	ND	40000	ug/Kg	05/19/13	DD	SW8270	
Benzo(a)pyrene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Benzo(b)fluoranthene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Benzo(ghi)perylene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Benzo(k)fluoranthene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Benzoic acid	ND	9900	ug/Kg	05/19/13	DD	SW8270	LO
Benzyl alcohol	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Benzyl butyl phthalate	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	6900	ug/Kg	05/19/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-1 (0-2)

Phoenix I.D.: BD70309

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	6900	ug/Kg	05/19/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Chrysene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Dibenzofuran	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Diethyl phthalate	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Dimethylphthalate	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Di-n-butylphthalate	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Di-n-octylphthalate	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Fluoranthene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Fluorene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Hexachlorobenzene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Hexachlorobutadiene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Hexachloroethane	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Isophorone	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Naphthalene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Nitrobenzene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
N-Nitrosodimethylamine	ND	6900	ug/Kg	05/19/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	6900	ug/Kg	05/19/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Phenanthrene	ND	6900	ug/Kg	05/19/13	DD	SW8270	
Pyrene	7700	6900	ug/Kg	05/19/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	*Diluted Out		%	05/19/13	DD	30 - 130 %	
% Nitrobenzene-d5	*Diluted Out		%	05/19/13	DD	30 - 130 %	
% Terphenyl-d14	*Diluted Out		%	05/19/13	DD	30 - 130 %	

Project ID: 13-070-00
Client ID: SB-1 (0-2)

Phoenix I.D.: BD70309

Parameter	Result	RL/ PQL	Units	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.
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.

Elevated reporting limits for volatiles due to the presence of non-target compounds.

* 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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/07/13	11:35
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70310

Project ID: 13-070-00
Client ID: SB-1 (12-14)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.33	0.33	mg/Kg	05/16/13	LK	SW6010	
Aluminum	6320	50	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.0	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	40.2	0.33	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.39	0.27	mg/Kg	05/16/13	LK	SW6010	
Calcium	1730	5.0	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.40	0.33	mg/Kg	05/16/13	LK	SW6010	
Cobalt	5.97	0.33	mg/Kg	05/16/13	LK	SW6010	
Chromium	17.0	0.33	mg/Kg	05/16/13	LK	SW6010	
Copper	13.4	0.33	mg/kg	05/16/13	LK	SW6010	
Iron	24800	50	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.07	0.07	mg/Kg	05/16/13	RS	SW-7471	
Potassium	970	5.0	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1730	5.0	mg/Kg	05/16/13	LK	SW6010	
Manganese	578	3.3	mg/Kg	05/16/13	LK	SW6010	
Sodium	116	5.0	mg/Kg	05/16/13	LK	SW6010	
Nickel	11.6	0.33	mg/Kg	05/16/13	LK	SW6010	
Lead	5.95	0.33	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.3	3.3	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.3	1.3	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.0	3.0	mg/Kg	05/16/13	LK	SW6010	
Vanadium	32.9	0.33	mg/Kg	05/16/13	LK	SW6010	
Zinc	28.2	0.33	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	90		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	JJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-1 (12-14)

Phoenix I.D.: BD70310

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	104		%	05/16/13	AW	30 - 150 %	
% TCMX	92		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	35	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	35	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	110		%	05/16/13	MH	30 - 150 %	
% TCMX	91		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloropropene	ND	280	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-1 (12-14)

Phoenix I.D.: BD70310

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromoethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloroethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloropropane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichloropropane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
2,2-Dichloropropane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
2-Chlorotoluene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
2-Hexanone	ND	1400	ug/Kg	05/15/13	R/J	SW8260	
2-Isopropyltoluene	ND	280	ug/Kg	05/15/13	R/J	SW8260	1
4-Chlorotoluene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	1400	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	1400	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	560	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	280	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	1400	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	560	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	280	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-1 (12-14)

Phoenix I.D.: BD70310

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	520	280	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	560	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	280	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	560	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	280	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	280	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	107		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	95		%	05/15/13	R/J	70 - 130 %	
% Toluene-d8	94		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	6300	ug/Kg	05/19/13	DD	SW8270	
1,3-Dichlorobenzene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
1,4-Dichlorobenzene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
2,4-Dinitrotoluene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
2,6-Dinitrotoluene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
2-Chloronaphthalene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
2-Methylnaphthalene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
2-Nitroaniline	ND	26000	ug/Kg	05/19/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	36000	ug/Kg	05/19/13	DD	SW8270	
3-Nitroaniline	ND	26000	ug/Kg	05/19/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	6300	ug/Kg	05/19/13	DD	SW8270	
4-Chloroaniline	ND	6300	ug/Kg	05/19/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	6300	ug/Kg	05/19/13	DD	SW8270	
4-Nitroaniline	ND	26000	ug/Kg	05/19/13	DD	SW8270	
Acenaphthene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Acenaphthylene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Anthracene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Benz(a)anthracene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Benzidine	ND	36000	ug/Kg	05/19/13	DD	SW8270	
Benzo(a)pyrene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Benzo(b)fluoranthene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Benzo(ghi)perylene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Benzo(k)fluoranthene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Benzoic acid	ND	9000	ug/Kg	05/19/13	DD	SW8270	LO
Benzyl alcohol	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Benzyl butyl phthalate	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	6300	ug/Kg	05/19/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-1 (12-14)

Phoenix I.D.: BD70310

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	6300	ug/Kg	05/19/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Chrysene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Dibenzofuran	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Diethyl phthalate	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Dimethylphthalate	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Di-n-butylphthalate	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Di-n-octylphthalate	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Fluoranthene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Fluorene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Hexachlorobenzene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Hexachlorobutadiene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Hexachloroethane	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Isophorone	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Naphthalene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Nitrobenzene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
N-Nitrosodimethylamine	ND	6300	ug/Kg	05/19/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	6300	ug/Kg	05/19/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Phenanthrene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
Pyrene	ND	6300	ug/Kg	05/19/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	*Diluted Out		%	05/19/13	DD	30 - 130 %	
% Nitrobenzene-d5	*Diluted Out		%	05/19/13	DD	30 - 130 %	
% Terphenyl-d14	*Diluted Out		%	05/19/13	DD	30 - 130 %	

Project ID: 13-070-00
Client ID: SB-1 (12-14)

Phoenix I.D.: BD70310

Parameter	Result	RL/ PQL	Units	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.
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.

Elevated reporting limits for volatiles due to the presence of non-target compounds.

* 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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	9:00
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70311

Project ID: 13-070-00
Client ID: SB-3 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.38	0.38	mg/Kg	05/16/13	LK	SW6010	
Aluminum	6550	56	mg/Kg	05/16/13	LK	SW6010	
Arsenic	3.3	0.8	mg/Kg	05/16/13	LK	SW6010	
Barium	109	0.38	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.36	0.30	mg/Kg	05/16/13	LK	SW6010	
Calcium	7690	5.6	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.63	0.38	mg/Kg	05/16/13	LK	SW6010	
Cobalt	6.67	0.38	mg/Kg	05/16/13	LK	SW6010	
Chromium	17.8	0.38	mg/Kg	05/16/13	LK	SW6010	
Copper	28.9	0.38	mg/kg	05/16/13	LK	SW6010	
Iron	29400	56	mg/Kg	05/16/13	LK	SW6010	
Mercury	0.38	0.07	mg/Kg	05/16/13	RS	SW-7471	
Potassium	1050	5.6	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1790	5.6	mg/Kg	05/16/13	LK	SW6010	
Manganese	608	3.8	mg/Kg	05/16/13	LK	SW6010	
Sodium	98.2	5.6	mg/Kg	05/16/13	LK	SW6010	
Nickel	12.2	0.38	mg/Kg	05/16/13	LK	SW6010	
Lead	283	3.8	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.8	3.8	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.4	3.4	mg/Kg	05/16/13	LK	SW6010	
Vanadium	26.5	0.38	mg/Kg	05/16/13	LK	SW6010	
Zinc	105	0.38	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	91		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-3 (0-2)

Phoenix I.D.: BD70311

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	600	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	96		%	05/16/13	AW	30 - 150 %	
% TCMX	79		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	96		%	05/16/13	MH	30 - 150 %	
% TCMX	80		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-3 (0-2)

Phoenix I.D.: BD70311

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	55	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-3 (0-2)

Phoenix I.D.: BD70311

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	108		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	79		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	110		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	84		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	6400	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	26000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	36000	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	26000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	6400	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	6400	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	6400	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	26000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	36000	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	9100	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	6400	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-3 (0-2)

Phoenix I.D.: BD70311

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	6400	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	7300	6400	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	6400	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	6400	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	6400	ug/Kg	05/16/13	DD	SW8270	
Pyrene	8800	6400	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	*Diluted Out		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	*Diluted Out		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	*Diluted Out		%	05/16/13	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.

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	9:00
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70312

Project ID: 13-070-00
Client ID: SB-3 (12-14)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.44	0.44	mg/Kg	05/16/13	LK	SW6010	
Aluminum	11500	67	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.4	0.9	mg/Kg	05/16/13	LK	SW6010	
Barium	40.8	0.44	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.59	0.36	mg/Kg	05/16/13	LK	SW6010	
Calcium	1170	6.7	mg/Kg	05/16/13	LK	SW6010	
Cadmium	< 0.44	0.44	mg/Kg	05/16/13	LK	SW6010	
Cobalt	4.96	0.44	mg/Kg	05/16/13	LK	SW6010	
Chromium	20.8	0.44	mg/Kg	05/16/13	LK	SW6010	
Copper	13.4	0.44	mg/kg	05/16/13	LK	SW6010	
Iron	14800	67	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.09	0.09	mg/Kg	05/16/13	RS	SW-7471	
Potassium	691	6.7	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1320	6.7	mg/Kg	05/16/13	LK	SW6010	
Manganese	112	0.44	mg/Kg	05/16/13	LK	SW6010	
Sodium	75.1	6.7	mg/Kg	05/16/13	LK	SW6010	
Nickel	9.26	0.44	mg/Kg	05/16/13	LK	SW6010	
Lead	6.71	0.44	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 4.4	4.4	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.8	1.8	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 4.0	4.0	mg/Kg	05/16/13	LK	SW6010	
Vanadium	28.1	0.44	mg/Kg	05/16/13	LK	SW6010	
Zinc	21.0	0.44	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	75		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-3 (12-14)

Phoenix I.D.: BD70312

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	440	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	440	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	440	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	440	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	440	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	440	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	440	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	440	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	440	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	84		%	05/16/13	AW	30 - 150 %	
% TCMX	70		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	42	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	42	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	42	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	21	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	21	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	6.6	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	21	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	66	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	21	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	6.6	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	21	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	42	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	42	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	42	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	42	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	42	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	6.6	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	13	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	21	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	210	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	210	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	76		%	05/16/13	MH	30 - 150 %	
% TCMX	82		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	330	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-3 (12-14)

Phoenix I.D.: BD70312

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	1700	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	330	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	1700	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	1700	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	670	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	330	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	1700	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	670	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	330	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-3 (12-14)

Phoenix I.D.: BD70312

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	670	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	330	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	670	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	330	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	330	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	95		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	97		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	94		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	310	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	310	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	310	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	310	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	310	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	310	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	310	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	310	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1300	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1700	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1300	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	310	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	310	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1300	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1700	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	440	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	310	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	310	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	310	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-3 (12-14)

Phoenix I.D.: BD70312

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	310	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	310	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	310	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	310	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	310	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	310	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	310	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	310	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	310	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	310	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	310	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	310	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	310	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	310	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	310	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	87		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	73		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	109		%	05/16/13	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.

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/06/13	9:00
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70313

Project ID: 13-070-00
Client ID: SB-8 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	05/16/13	LK	SW6010	
Aluminum	10500	56	mg/Kg	05/16/13	LK	SW6010	
Arsenic	5.7	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	123	0.37	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.55	0.30	mg/Kg	05/16/13	LK	SW6010	
Calcium	2050	5.6	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.64	0.37	mg/Kg	05/16/13	LK	SW6010	
Cobalt	8.87	0.37	mg/Kg	05/16/13	LK	SW6010	
Chromium	22.9	0.37	mg/Kg	05/16/13	LK	SW6010	
Copper	41.1	0.37	mg/kg	05/16/13	LK	SW6010	
Iron	26700	56	mg/Kg	05/16/13	LK	SW6010	
Mercury	0.98	0.08	mg/Kg	05/16/13	RS	SW-7471	
Potassium	1170	5.6	mg/Kg	05/16/13	LK	SW6010	
Magnesium	2250	5.6	mg/Kg	05/16/13	LK	SW6010	
Manganese	512	3.7	mg/Kg	05/16/13	LK	SW6010	
Sodium	116	5.6	mg/Kg	05/16/13	LK	SW6010	
Nickel	16.2	0.37	mg/Kg	05/16/13	LK	SW6010	
Lead	259	3.7	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.7	3.7	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.4	3.4	mg/Kg	05/16/13	LK	SW6010	
Vanadium	31.3	0.37	mg/Kg	05/16/13	LK	SW6010	
Zinc	142	0.37	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	89		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	JJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-8 (0-2)

Phoenix I.D.: BD70313

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	101		%	05/16/13	AW	30 - 150 %	
% TCMX	80		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	35	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	35	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	118		%	05/16/13	MH	30 - 150 %	
% TCMX	93		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-8 (0-2)

Phoenix I.D.: BD70313

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
2-Chlorotoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
2-Hexanone	ND	28	ug/Kg	05/15/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	220	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	28	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-8 (0-2)

Phoenix I.D.: BD70313

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	85		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	107		%	05/15/13	R/J	70 - 130 %	
% Toluene-d8	92		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Anthracene	700	260	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	2100	260	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	2200	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	2700	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	1600	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	950	260	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	370	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-8 (0-2)

Phoenix I.D.: BD70313

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Chrysene	2300	260	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	370	260	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	260	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	5300	260	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	1300	260	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	260	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	3600	260	ug/Kg	05/16/13	DD	SW8270	
Pyrene	5400	260	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	96		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	76		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	124		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/06/13	9:00
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70314

Project ID: 13-070-00
Client ID: SB-8 (12-14)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.39	0.39	mg/Kg	05/16/13	LK	SW6010	
Aluminum	10000	59	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.8	0.8	mg/Kg	05/16/13	LK	SW6010	
Barium	35.7	0.39	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.42	0.31	mg/Kg	05/16/13	LK	SW6010	
Calcium	502	5.9	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.47	0.39	mg/Kg	05/16/13	LK	SW6010	
Cobalt	9.65	0.39	mg/Kg	05/16/13	LK	SW6010	
Chromium	24.2	0.39	mg/Kg	05/16/13	LK	SW6010	
Copper	15.6	0.39	mg/kg	05/16/13	LK	SW6010	
Iron	29800	59	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.06	0.06	mg/Kg	05/16/13	RS	SW-7471	
Potassium	1120	5.9	mg/Kg	05/16/13	LK	SW6010	
Magnesium	2070	5.9	mg/Kg	05/16/13	LK	SW6010	
Manganese	798	3.9	mg/Kg	05/16/13	LK	SW6010	
Sodium	52.6	5.9	mg/Kg	05/16/13	LK	SW6010	
Nickel	11.5	0.39	mg/Kg	05/16/13	LK	SW6010	
Lead	7.02	0.39	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.9	3.9	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.6	1.6	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.5	3.5	mg/Kg	05/16/13	LK	SW6010	
Vanadium	44.7	0.39	mg/Kg	05/16/13	LK	SW6010	
Zinc	31.0	0.39	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	89		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	JJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-8 (12-14)

Phoenix I.D.: BD70314

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	99		%	05/16/13	AW	30 - 150 %	
% TCMX	82		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	35	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	35	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	94		%	05/16/13	MH	30 - 150 %	
% TCMX	95		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,1,1-Trichloroethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,1,2-Trichloroethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,1-Dichloroethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,1-Dichloroethene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,1-Dichloropropene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	

Project ID: 13-070-00
Client ID: SB-8 (12-14)

Phoenix I.D.: BD70314

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,2,3-Trichloropropane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,2-Dibromoethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,2-Dichlorobenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,2-Dichloroethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,2-Dichloropropane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,3-Dichlorobenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,3-Dichloropropane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
1,4-Dichlorobenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
2,2-Dichloropropane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
2-Chlorotoluene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
2-Hexanone	ND	28	ug/Kg	05/16/13	H/J	SW8260	
2-Isopropyltoluene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	1
4-Chlorotoluene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	05/16/13	H/J	SW8260	
Acetone	ND	56	ug/Kg	05/16/13	H/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	H/J	SW8260	
Benzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Bromobenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Bromochloromethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Bromodichloromethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Bromoform	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Bromomethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Carbon Disulfide	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Carbon tetrachloride	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Chlorobenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Chloroethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Chloroform	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Chloromethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	1
Dibromochloromethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Dibromomethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Dichlorodifluoromethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Ethylbenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Hexachlorobutadiene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Isopropylbenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
m&p-Xylene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Methyl Ethyl Ketone	ND	28	ug/Kg	05/16/13	H/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	H/J	SW8260	
Methylene chloride	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Naphthalene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
n-Butylbenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
n-Propylbenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
o-Xylene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
p-Isopropyltoluene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	

Project ID: 13-070-00
Client ID: SB-8 (12-14)

Phoenix I.D.: BD70314

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Styrene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
tert-Butylbenzene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Tetrachloroethene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	H/J	SW8260	1
Toluene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Total Xylenes	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	H/J	SW8260	
Trichloroethene	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Trichlorofluoromethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Trichlorotrifluoroethane	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
Vinyl chloride	ND	5.6	ug/Kg	05/16/13	H/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/16/13	H/J	70 - 130 %	
% Bromofluorobenzene	89		%	05/16/13	H/J	70 - 130 %	
% Dibromofluoromethane	100		%	05/16/13	H/J	70 - 130 %	
% Toluene-d8	94		%	05/16/13	H/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	370	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-8 (12-14)

Phoenix I.D.: BD70314

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	260	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	260	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	89		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	76		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	144		%	05/16/13	DD	30 - 130 %	3

Project ID: 13-070-00 Phoenix I.D.: BD70314

Client ID: SB-8 (12-14)

Parameter	Result	RL/ PQL	Units	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.
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.

* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/03/13	13:10
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70315

Project ID: 13-070-00
Client ID: SB-9 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	05/16/13	LK	SW6010	
Aluminum	11900	55	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.7	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	36.2	0.37	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.42	0.29	mg/Kg	05/16/13	LK	SW6010	
Calcium	654	5.5	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.38	0.37	mg/Kg	05/16/13	LK	SW6010	
Cobalt	7.22	0.37	mg/Kg	05/16/13	LK	SW6010	
Chromium	23.6	0.37	mg/Kg	05/16/13	LK	SW6010	
Copper	10.7	0.37	mg/kg	05/16/13	LK	SW6010	
Iron	22900	55	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.08	0.08	mg/Kg	05/16/13	RS	SW-7471	
Potassium	617	5.5	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1960	5.5	mg/Kg	05/16/13	LK	SW6010	
Manganese	287	3.7	mg/Kg	05/16/13	LK	SW6010	
Sodium	64.3	5.5	mg/Kg	05/16/13	LK	SW6010	
Nickel	11.8	0.37	mg/Kg	05/16/13	LK	SW6010	
Lead	7.52	0.37	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.7	3.7	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.3	3.3	mg/Kg	05/16/13	LK	SW6010	
Vanadium	32.0	0.37	mg/Kg	05/16/13	LK	SW6010	
Zinc	44.3	0.37	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	92		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	JJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-9 (0-2)

Phoenix I.D.: BD70315

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	80		%	05/16/13	AW	30 - 150 %	
% TCMX	84		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	53	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	92		%	05/16/13	MH	30 - 150 %	
% TCMX	88		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	270	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-9 (0-2)

Phoenix I.D.: BD70315

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	1400	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	270	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	1400	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	1400	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	540	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	270	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	1400	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	540	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	270	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-9 (0-2)

Phoenix I.D.: BD70315

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	540	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	270	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	540	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	270	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	270	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	93		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	95		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	94		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	350	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-9 (0-2)

Phoenix I.D.: BD70315

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	86		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	75		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	72		%	05/16/13	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.

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/03/13	13:10
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70316

Project ID: 13-070-00
Client ID: SB-9 (12-14)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.34	0.34	mg/Kg	05/16/13	LK	SW6010	
Aluminum	8680	52	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.1	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	33.7	0.34	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.48	0.28	mg/Kg	05/16/13	LK	SW6010	
Calcium	1400	5.2	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.42	0.34	mg/Kg	05/16/13	LK	SW6010	
Cobalt	7.20	0.34	mg/Kg	05/16/13	LK	SW6010	
Chromium	20.8	0.34	mg/Kg	05/16/13	LK	SW6010	
Copper	16.4	0.34	mg/kg	05/16/13	LK	SW6010	
Iron	26200	52	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.08	0.08	mg/Kg	05/16/13	RS	SW-7471	
Potassium	1260	5.2	mg/Kg	05/16/13	LK	SW6010	
Magnesium	2290	5.2	mg/Kg	05/16/13	LK	SW6010	
Manganese	518	3.4	mg/Kg	05/16/13	LK	SW6010	
Sodium	77.3	5.2	mg/Kg	05/16/13	LK	SW6010	
Nickel	11.7	0.34	mg/Kg	05/16/13	LK	SW6010	
Lead	6.10	0.34	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.4	3.4	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.1	3.1	mg/Kg	05/16/13	LK	SW6010	
Vanadium	38.2	0.34	mg/Kg	05/16/13	LK	SW6010	
Zinc	29.6	0.34	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	93		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	JJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-9 (12-14)

Phoenix I.D.: BD70316

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	74		%	05/16/13	AW	30 - 150 %	
% TCMX	84		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	53	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	86		%	05/16/13	MH	30 - 150 %	
% TCMX	89		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-9 (12-14)

Phoenix I.D.: BD70316

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
2-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	110	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-9 (12-14)

Phoenix I.D.: BD70316

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	88		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	105		%	05/15/13	R/J	70 - 130 %	
% Toluene-d8	93		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	360	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-9 (12-14)

Phoenix I.D.: BD70316

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	91		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	90		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	90		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	14:00
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70317

Project ID: 13-070-00
Client ID: SB-10 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.32	0.32	mg/Kg	05/16/13	LK	SW6010	
Aluminum	5950	48	mg/Kg	05/16/13	LK	SW6010	
Arsenic	1.9	0.6	mg/Kg	05/16/13	LK	SW6010	
Barium	33.8	0.32	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.42	0.26	mg/Kg	05/16/13	LK	SW6010	
Calcium	1380	4.8	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.59	0.32	mg/Kg	05/16/13	LK	SW6010	
Cobalt	6.50	0.32	mg/Kg	05/16/13	LK	SW6010	
Chromium	16.2	0.32	mg/Kg	05/16/13	LK	SW6010	
Copper	17.3	0.32	mg/kg	05/16/13	LK	SW6010	
Iron	23400	48	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.08	0.08	mg/Kg	05/16/13	RS	SW-7471	
Potassium	1170	4.8	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1830	4.8	mg/Kg	05/16/13	LK	SW6010	
Manganese	644	3.2	mg/Kg	05/16/13	LK	SW6010	
Sodium	151	4.8	mg/Kg	05/16/13	LK	SW6010	
Nickel	12.1	0.32	mg/Kg	05/16/13	LK	SW6010	
Lead	6.87	0.32	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.2	3.2	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.3	1.3	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 2.9	2.9	mg/Kg	05/16/13	LK	SW6010	
Vanadium	27.0	0.32	mg/Kg	05/16/13	LK	SW6010	
Zinc	124	0.32	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	92		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-10 (0-2)

Phoenix I.D.: BD70317

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	350	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	88		%	05/16/13	AW	30 - 150 %	
% TCMX	72		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	53	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	88		%	05/16/13	MH	30 - 150 %	
% TCMX	94		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-10 (0-2)

Phoenix I.D.: BD70317

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
2-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	54	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-10 (0-2)

Phoenix I.D.: BD70317

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	89		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	101		%	05/15/13	R/J	70 - 130 %	
% Toluene-d8	94		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	360	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-10 (0-2)

Phoenix I.D.: BD70317

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	92		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	77		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	126		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	14:00
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70309
Phoenix ID: BD70318

Project ID: 13-070-00
Client ID: SB-10 (12-14)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	05/16/13	LK	SW6010	
Aluminum	10800	55	mg/Kg	05/16/13	LK	SW6010	
Arsenic	3.1	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	35.6	0.37	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.64	0.29	mg/Kg	05/16/13	LK	SW6010	
Calcium	578	5.5	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.48	0.37	mg/Kg	05/16/13	LK	SW6010	
Cobalt	12.1	0.37	mg/Kg	05/16/13	LK	SW6010	
Chromium	30.1	0.37	mg/Kg	05/16/13	LK	SW6010	
Copper	11.6	0.37	mg/kg	05/16/13	LK	SW6010	
Iron	31000	55	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.07	0.07	mg/Kg	05/16/13	RS	SW-7471	
Potassium	761	5.5	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1800	5.5	mg/Kg	05/16/13	LK	SW6010	
Manganese	450	3.7	mg/Kg	05/16/13	LK	SW6010	
Sodium	56.8	5.5	mg/Kg	05/16/13	LK	SW6010	
Nickel	11.9	0.37	mg/Kg	05/16/13	LK	SW6010	
Lead	7.20	0.37	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.7	3.7	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.3	3.3	mg/Kg	05/16/13	LK	SW6010	
Vanadium	38.4	0.37	mg/Kg	05/16/13	LK	SW6010	
Zinc	24.2	0.37	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	90		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-10 (12-14)

Phoenix I.D.: BD70318

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	97		%	05/16/13	AW	30 - 150 %	
% TCMX	73		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	81		%	05/16/13	MH	30 - 150 %	
% TCMX	87		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	28	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-10 (12-14)

Phoenix I.D.: BD70318

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	140	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	28	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	140	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	140	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	56	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	28	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	140	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	56	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	790	280	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	28	ug/Kg	05/16/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	56	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	28	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	56	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	28	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	88		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	103		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	93		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	370	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-10 (12-14)

Phoenix I.D.: BD70318

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	260	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	260	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	92		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	76		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	135		%	05/16/13	DD	30 - 130 %	3

Project ID: 13-070-00 Phoenix I.D.: BD70318

Client ID: SB-10 (12-14)

Parameter	Result	RL/ PQL	Units	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.
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.

* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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
May 20, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 20, 2013

QA/QC Data

SDG I.D.: GBD70309

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 230590, QC Sample No: BD70273 (BD70309, BD70310, BD70311, BD70312, BD70313, BD70314, BD70315, BD70316, BD70317, BD70318)													
ICP Metals - Soil													
Aluminum	BRL	9360	9200	1.70	108	100	7.7	NC	NC	NC	75 - 125	30	
Antimony	BRL	<3.3	<3.6	NC	94.2	92.8	1.5	84.2	84.3	0.1	75 - 125	30	
Arsenic	BRL	3.1	2.95	NC	102	95.4	6.7	91.4	90.7	0.8	75 - 125	30	
Barium	BRL	113	92.3	20.2	106	100	5.8	107	101	5.8	75 - 125	30	
Beryllium	BRL	0.44	0.45	NC	103	96.6	6.4	95.1	94.4	0.7	75 - 125	30	
Cadmium	BRL	0.50	0.71	NC	105	103	1.9	93.6	93.1	0.5	75 - 125	30	
Calcium	BRL	1130	1150	1.80	103	101	2.0	NC	NC	NC	75 - 125	30	
Chromium	BRL	21.2	21.7	2.30	106	101	4.8	97.6	94.7	3.0	75 - 125	30	
Cobalt	BRL	5.10	5.19	1.70	106	101	4.8	94.9	94.0	1.0	75 - 125	30	
Copper	BRL	31.5	29.3	7.20	107	100	6.8	96.8	93.2	3.8	75 - 125	30	
Iron	BRL	24400	23600	3.30	111	102	8.5	NC	NC	NC	75 - 125	30	
Lead	BRL	266	201	27.8	103	96.5	6.5	77.0	76.4	0.8	75 - 125	30	
Magnesium	BRL	1650	1580	4.30	110	104	5.6	NC	NC	NC	75 - 125	30	
Manganese	BRL	293	342	15.4	105	101	3.9	88.2	61.7	35.4	75 - 125	30	m,r
Nickel	BRL	12.4	12.9	4.00	106	101	4.8	94.7	93.3	1.5	75 - 125	30	
Potassium	BRL	796	691	14.1	94.9	86.9	8.8	128	>130	NC	75 - 125	30	m
Selenium	BRL	<1.3	<1.4	NC	88.2	84.0	4.9	81.3	80.7	0.7	75 - 125	30	
Silver	BRL	<0.33	<0.36	NC	104	92.0	12.2	96.0	95.4	0.6	75 - 125	30	
Sodium	BRL	131	116	12.1	114	105	8.2	101	109	7.6	75 - 125	30	
Thallium	BRL	<2.9	<3.2	NC	103	98.9	4.1	93.1	92.5	0.6	75 - 125	30	
Vanadium	BRL	33.5	31.2	7.10	107	101	5.8	95.6	95.8	0.2	75 - 125	30	
Zinc	0.68	84.6	99.6	16.3	102	95.6	6.5	95.7	80.0	17.9	75 - 125	30	
QA/QC Batch 230670, QC Sample No: BD70274 (BD70309, BD70310, BD70311)													
Mercury - Soil	BRL	0.45	0.48	6.50	104	105	1.0	104	116	10.9	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 230671, QC Sample No: BD70316 (BD70312, BD70313, BD70314, BD70315, BD70316, BD70317, BD70318)													
Mercury - Soil	BRL	<0.08	<0.07	NC	107	101	5.8	115	107	7.2	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 20, 2013

QA/QC Data

SDG I.D.: GBD70309

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 230565, QC Sample No: BD70274 (BD70309, BD70310, BD70311, BD70312, BD70313, BD70314, BD70315, BD70316, BD70317, BD70318)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	85	80	6.1	80	76	5.1	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	80	76	5.1	76	66	14.1	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	90	98	96	2.1	89	89	0.0	30 - 150	30	
% TCMX (Surrogate Rec)	88	98	97	1.0	91	90	1.1	30 - 150	30	
QA/QC Batch 230792, QC Sample No: BD70277 (BD70309 (50X) , BD70310 (50X) , BD70313, BD70314, BD70316, BD70317)										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	105	103	1.9	95	127	28.8	70 - 130	30	
1,1,1-Trichloroethane	ND	87	85	2.3	85	109	24.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	94	91	3.2	121	>150	NC	70 - 130	30	m
1,1,2-Trichloroethane	ND	93	96	3.2	83	96	14.5	70 - 130	30	
1,1-Dichloroethane	ND	88	87	1.1	87	110	23.4	70 - 130	30	
1,1-Dichloroethene	ND	84	80	4.9	75	98	26.6	70 - 130	30	
1,1-Dichloropropene	ND	96	94	2.1	84	110	26.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	110	118	7.0	<40	41	NC	70 - 130	30	m
1,2,3-Trichloropropane	ND	95	90	5.4	124	>150	NC	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	114	121	6.0	<40	51	NC	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	96	94	2.1	62	106	52.4	70 - 130	30	m,r
1,2-Dibromo-3-chloropropane	ND	116	119	2.6	131	>150	NC	70 - 130	30	m
1,2-Dibromoethane	ND	94	97	3.1	79	90	13.0	70 - 130	30	
1,2-Dichlorobenzene	ND	98	96	2.1	66	95	36.0	70 - 130	30	m,r
1,2-Dichloroethane	ND	93	96	3.2	88	104	16.7	70 - 130	30	
1,2-Dichloropropane	ND	92	92	0.0	88	108	20.4	70 - 130	30	
1,3,5-Trimethylbenzene	ND	94	90	4.3	71	117	48.9	70 - 130	30	r
1,3-Dichlorobenzene	ND	104	100	3.9	69	106	42.3	70 - 130	30	m,r
1,3-Dichloropropane	ND	94	93	1.1	94	117	21.8	70 - 130	30	
1,4-Dichlorobenzene	ND	100	98	2.0	65	100	42.4	70 - 130	30	m,r
2,2-Dichloropropane	ND	91	91	0.0	85	110	25.6	70 - 130	30	
2-Chlorotoluene	ND	105	100	4.9	91	143	44.4	70 - 130	30	m,r
2-Hexanone	ND	83	83	0.0	72	82	13.0	70 - 130	30	
2-Isopropyltoluene	ND	98	95	3.1	66	111	50.8	70 - 130	30	m,r
4-Chlorotoluene	ND	102	99	3.0	84	132	44.4	70 - 130	30	m,r
4-Methyl-2-pentanone	ND	94	95	1.1	74	80	7.8	70 - 130	30	
Acetone	ND	73	70	4.2	NC	NC	NC	70 - 130	30	

QA/QC Data

SDG I.D.: GBD70309

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acrylonitrile	ND	93	96	3.2	84	87	3.5	70 - 130	30	
Benzene	ND	86	85	1.2	79	100	23.5	70 - 130	30	
Bromobenzene	ND	106	102	3.8	104	147	34.3	70 - 130	30	m,r
Bromochloromethane	ND	99	99	0.0	93	111	17.6	70 - 130	30	
Bromodichloromethane	ND	90	89	1.1	79	98	21.5	70 - 130	30	
Bromoform	ND	109	108	0.9	89	108	19.3	70 - 130	30	
Bromomethane	ND	89	82	8.2	67	103	42.4	70 - 130	30	m,r
Carbon Disulfide	ND	78	73	6.6	57	79	32.4	70 - 130	30	m,r
Carbon tetrachloride	ND	101	101	0.0	91	117	25.0	70 - 130	30	
Chlorobenzene	ND	99	97	2.0	79	107	30.1	70 - 130	30	
Chloroethane	ND	84	79	6.1	79	106	29.2	70 - 130	30	
Chloroform	ND	82	83	1.2	80	100	22.2	70 - 130	30	
Chloromethane	ND	88	90	2.2	87	113	26.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	89	90	1.1	80	98	20.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	93	95	2.1	76	93	20.1	70 - 130	30	
Dibromochloromethane	ND	105	105	0.0	99	124	22.4	70 - 130	30	
Dibromomethane	ND	93	97	4.2	80	92	14.0	70 - 130	30	
Dichlorodifluoromethane	ND	89	89	0.0	95	124	26.5	70 - 130	30	
Ethylbenzene	ND	92	90	2.2	73	105	36.0	70 - 130	30	r
Hexachlorobutadiene	ND	105	111	5.6	<40	63	NC	70 - 130	30	m
Isopropylbenzene	ND	102	96	6.1	98	>150	NC	70 - 130	30	m
m&p-Xylene	ND	94	93	1.1	68	98	36.1	70 - 130	30	m,r
Methyl ethyl ketone	ND	68	72	5.7	75	77	2.6	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	80	80	0.0	92	103	11.3	70 - 130	30	
Methylene chloride	ND	75	74	1.3	86	130	40.7	70 - 130	30	r
Naphthalene	ND	109	125	13.7	49	94	62.9	70 - 130	30	m,r
n-Butylbenzene	ND	93	94	1.1	43	87	67.7	70 - 130	30	m,r
n-Propylbenzene	ND	105	99	5.9	86	143	49.8	70 - 130	30	m,r
o-Xylene	ND	94	93	1.1	71	99	32.9	70 - 130	30	r
p-Isopropyltoluene	ND	106	102	3.8	64	117	58.6	70 - 130	30	m,r
sec-Butylbenzene	ND	90	87	3.4	62	108	54.1	70 - 130	30	m,r
Styrene	ND	89	89	0.0	65	90	32.3	70 - 130	30	m,r
tert-Butylbenzene	ND	101	95	6.1	78	130	50.0	70 - 130	30	r
Tetrachloroethene	ND	106	104	1.9	88	127	36.3	70 - 130	30	r
Tetrahydrofuran (THF)	ND	86	89	3.4	95	100	5.1	70 - 130	30	
Toluene	ND	88	88	0.0	73	94	25.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	81	80	1.2	67	87	26.0	70 - 130	30	m
trans-1,3-Dichloropropene	ND	92	94	2.2	70	81	14.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	100	99	1.0	95	114	18.2	70 - 130	30	
Trichloroethene	ND	102	99	3.0	86	112	26.3	70 - 130	30	
Trichlorofluoromethane	ND	90	86	4.5	84	112	28.6	70 - 130	30	
Trichlorotrifluoroethane	ND	94	94	0.0	90	121	29.4	70 - 130	30	
Vinyl chloride	ND	93	94	1.1	83	107	25.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	101	101	0.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	95	97	99	2.0	84	83	1.2	70 - 130	30	
% Dibromofluoromethane	98	99	99	0.0	107	106	0.9	70 - 130	30	
% Toluene-d8	95	94	94	0.0	89	88	1.1	70 - 130	30	

Comment:

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

QA/QC Batch 230562, QC Sample No: BD70288 (BD70311, BD70312, BD70317, BD70318)

Semivolatiles - Soil

1,2-Dichlorobenzene	ND	70	74	5.6	75	76	1.3	30 - 130	30

QA/QC Data

SDG I.D.: GBD70309

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Diphenylhydrazine	ND	89	94	5.5	97	102	5.0	30 - 130	30	
1,3-Dichlorobenzene	ND	69	73	5.6	74	76	2.7	30 - 130	30	
1,4-Dichlorobenzene	ND	71	76	6.8	75	77	2.6	30 - 130	30	
2,4-Dinitrotoluene	ND	85	94	10.1	94	100	6.2	30 - 130	30	
2,6-Dinitrotoluene	ND	76	80	5.1	82	88	7.1	30 - 130	30	
2-Chloronaphthalene	ND	84	89	5.8	89	97	8.6	30 - 130	30	
2-Methylnaphthalene	ND	77	86	11.0	90	88	2.2	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3-Nitroaniline	ND	132	>150	NC	140	147	4.9	30 - 130	30	l,m
4-Bromophenyl phenyl ether	ND	88	92	4.4	98	102	4.0	30 - 130	30	
4-Chloroaniline	ND	77	85	9.9	74	77	4.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	89	100	11.6	97	101	4.0	30 - 130	30	
4-Nitroaniline	ND	81	86	6.0	90	100	10.5	30 - 130	30	
Acenaphthene	ND	84	90	6.9	91	95	4.3	30 - 130	30	
Acenaphthylene	ND	78	83	6.2	85	88	3.5	30 - 130	30	
Anthracene	ND	79	87	9.6	91	96	5.3	30 - 130	30	
Benz(a)anthracene	ND	103	115	11.0	121	121	0.0	30 - 130	30	
Benzidine	ND	83	89	7.0	20	25	22.2	30 - 130	30	m
Benzo(a)pyrene	ND	74	85	13.8	89	91	2.2	30 - 130	30	
Benzo(b)fluoranthene	ND	87	94	7.7	105	105	0.0	30 - 130	30	
Benzo(ghi)perylene	ND	65	79	19.4	76	81	6.4	30 - 130	30	
Benzo(k)fluoranthene	ND	98	109	10.6	115	120	4.3	30 - 130	30	
Benzyl Alcohol	ND	45	57	23.5	39	41	5.0	30 - 130	30	
Benzyl butyl phthalate	ND	79	92	15.2	84	89	5.8	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	72	76	5.4	83	83	0.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	62	65	4.7	67	67	0.0	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	72	75	4.1	77	78	1.3	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	72	83	14.2	96	97	1.0	30 - 130	30	
Chrysene	ND	114	129	12.3	144	146	1.4	30 - 130	30	m
Dibenz(a,h)anthracene	ND	93	124	28.6	108	114	5.4	30 - 130	30	
Dibenzofuran	ND	86	95	9.9	95	102	7.1	30 - 130	30	
Diethyl phthalate	ND	87	92	5.6	93	97	4.2	30 - 130	30	
Dimethylphthalate	ND	83	87	4.7	92	96	4.3	30 - 130	30	
Di-n-butylphthalate	ND	84	95	12.3	88	97	9.7	30 - 130	30	
Di-n-octylphthalate	ND	113	124	9.3	144	144	0.0	30 - 130	30	m
Fluoranthene	ND	85	94	10.1	93	96	3.2	30 - 130	30	
Fluorene	ND	91	101	10.4	100	101	1.0	30 - 130	30	
Hexachlorobenzene	ND	93	96	3.2	105	115	9.1	30 - 130	30	
Hexachlorobutadiene	ND	84	87	3.5	91	94	3.2	30 - 130	30	
Hexachlorocyclopentadiene	ND	63	75	17.4	73	73	0.0	30 - 130	30	
Hexachloroethane	ND	79	84	6.1	87	88	1.1	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	83	106	24.3	97	102	5.0	30 - 130	30	
Isophorone	ND	78	82	5.0	86	89	3.4	30 - 130	30	
Naphthalene	ND	78	83	6.2	89	87	2.3	30 - 130	30	
Nitrobenzene	ND	76	83	8.8	84	83	1.2	30 - 130	30	
N-Nitrosodimethylamine	ND	58	66	12.9	60	54	10.5	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	79	89	11.9	85	85	0.0	30 - 130	30	
N-Nitrosodiphenylamine	ND	90	101	11.5	101	105	3.9	30 - 130	30	
Phenanthrene	ND	84	93	10.2	98	103	5.0	30 - 130	30	
Pyrene	ND	84	90	6.9	91	97	6.4	30 - 130	30	
% 2-Fluorobiphenyl	77	86	86	0.0	87	96	9.8	30 - 130	30	
% Nitrobenzene-d5	81	76	80	5.1	82	84	2.4	30 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Terphenyl-d14	88	97	97	0.0	88	102	14.7	30 - 130	30	

Comment:

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

QA/QC Batch 231358, QC Sample No: BD70318 (BD70318 (50, 1X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	100	105	4.9	104	101	2.9	70 - 130	30	
1,1,1-Trichloroethane	ND	85	91	6.8	92	95	3.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	87	88	1.1	94	94	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	91	94	3.2	96	90	6.5	70 - 130	30	
1,1-Dichloroethane	ND	88	92	4.4	93	96	3.2	70 - 130	30	
1,1-Dichloroethene	ND	79	85	7.3	80	87	8.4	70 - 130	30	
1,1-Dichloropropene	ND	94	98	4.2	103	102	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	106	104	1.9	112	65	53.1	70 - 130	30	m,r
1,2,3-Trichloropropane	ND	87	88	1.1	96	100	4.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	110	109	0.9	120	63	62.3	70 - 130	30	m,r
1,2,4-Trimethylbenzene	ND	93	95	2.1	118	81	37.2	70 - 130	30	r
1,2-Dibromo-3-chloropropane	ND	104	104	0.0	108	104	3.8	70 - 130	30	
1,2-Dibromoethane	ND	91	93	2.2	99	93	6.3	70 - 130	30	
1,2-Dichlorobenzene	ND	94	96	2.1	99	75	27.6	70 - 130	30	
1,2-Dichloroethane	ND	92	93	1.1	99	95	4.1	70 - 130	30	
1,2-Dichloropropane	ND	90	94	4.3	98	95	3.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	90	93	3.3	109	80	30.7	70 - 130	30	r
1,3-Dichlorobenzene	ND	98	100	2.0	103	75	31.5	70 - 130	30	r
1,3-Dichloropropane	ND	90	93	3.3	96	95	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	96	97	1.0	101	70	36.3	70 - 130	30	r
2,2-Dichloropropane	ND	91	95	4.3	98	102	4.0	70 - 130	30	
2-Chlorotoluene	ND	100	103	3.0	102	82	21.7	70 - 130	30	
2-Hexanone	ND	75	76	1.3	60	58	3.4	70 - 130	30	m
2-Isopropyltoluene	ND	94	97	3.1	102	68	40.0	70 - 130	30	m,r
4-Chlorotoluene	ND	97	98	1.0	105	77	30.8	70 - 130	30	r
4-Methyl-2-pentanone	ND	87	89	2.3	93	87	6.7	70 - 130	30	
Acetone	ND	68	73	7.1	<40	40	NC	70 - 130	30	l,m
Acrylonitrile	ND	94	92	2.2	107	99	7.8	70 - 130	30	
Benzene	ND	85	88	3.5	91	91	0.0	70 - 130	30	
Bromobenzene	ND	101	102	1.0	102	90	12.5	70 - 130	30	
Bromochloromethane	ND	97	100	3.0	104	102	1.9	70 - 130	30	
Bromodichloromethane	ND	86	89	3.4	90	88	2.2	70 - 130	30	
Bromoform	ND	99	105	5.9	99	96	3.1	70 - 130	30	
Bromomethane	ND	84	88	4.7	54	64	16.9	70 - 130	30	m
Carbon Disulfide	ND	72	78	8.0	80	86	7.2	70 - 130	30	
Carbon tetrachloride	ND	98	103	5.0	104	102	1.9	70 - 130	30	
Chlorobenzene	ND	95	100	5.1	101	92	9.3	70 - 130	30	
Chloroethane	ND	80	87	8.4	<40	<40	NC	70 - 130	30	m
Chloroform	ND	82	86	4.8	88	88	0.0	70 - 130	30	
Chloromethane	ND	92	91	1.1	102	97	5.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	90	92	2.2	95	94	1.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	89	92	3.3	98	92	6.3	70 - 130	30	
Dibromochloromethane	ND	101	105	3.9	101	101	0.0	70 - 130	30	
Dibromomethane	ND	92	94	2.2	96	91	5.3	70 - 130	30	
Dichlorodifluoromethane	ND	96	93	3.2	91	96	5.3	70 - 130	30	
Ethylbenzene	ND	88	93	5.5	99	86	14.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBD70309

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Hexachlorobutadiene	ND	100	102	2.0	114	<40	NC	70 - 130	30	m
Isopropylbenzene	ND	97	101	4.0	101	85	17.2	70 - 130	30	
m&p-Xylene	ND	91	94	3.2	104	88	16.7	70 - 130	30	
Methyl ethyl ketone	ND	71	69	2.9	56	54	3.6	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	77	79	2.6	87	86	1.2	70 - 130	30	
Methylene chloride	ND	70	75	6.9	72	76	5.4	70 - 130	30	
Naphthalene	ND	110	99	10.5	115	84	31.2	70 - 130	30	r
n-Butylbenzene	ND	91	91	0.0	99	47	71.2	70 - 130	30	m,r
n-Propylbenzene	ND	100	104	3.9	105	78	29.5	70 - 130	30	
o-Xylene	ND	90	94	4.3	106	91	15.2	70 - 130	30	
p-Isopropyltoluene	ND	101	104	2.9	109	65	50.6	70 - 130	30	m,r
sec-Butylbenzene	ND	87	90	3.4	95	65	37.5	70 - 130	30	m,r
Styrene	ND	86	87	1.2	97	82	16.8	70 - 130	30	
tert-Butylbenzene	ND	96	99	3.1	100	76	27.3	70 - 130	30	
Tetrachloroethene	ND	102	109	6.6	109	101	7.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	85	83	2.4	97	90	7.5	70 - 130	30	
Toluene	ND	86	90	4.5	95	88	7.7	70 - 130	30	
trans-1,2-Dichloroethene	ND	81	84	3.6	86	86	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	89	90	1.1	97	89	8.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	95	92	3.2	94	89	5.5	70 - 130	30	
Trichloroethene	ND	99	104	4.9	104	100	3.9	70 - 130	30	
Trichlorofluoromethane	ND	86	91	5.6	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	93	100	7.3	98	107	8.8	70 - 130	30	
Vinyl chloride	ND	96	97	1.0	91	94	3.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	103	101	102	1.0	99	100	1.0	70 - 130	30	
% Bromofluorobenzene	94	96	97	1.0	97	98	1.0	70 - 130	30	
% Dibromofluoromethane	97	101	101	0.0	96	95	1.0	70 - 130	30	
% Toluene-d8	94	93	94	1.1	94	93	1.1	70 - 130	30	

Comment:

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

QA/QC Batch 230441, QC Sample No: BD78183 (BD70309, BD70310, BD70311)

Pesticides - Soil

4,4' -DDD	ND	67	76	12.6	73	73	0.0	40 - 140	30
4,4' -DDE	ND	67	73	8.6	70	69	1.4	40 - 140	30
4,4' -DDT	ND	68	73	7.1	70	71	1.4	40 - 140	30
a-BHC	ND	72	78	8.0	75	75	0.0	40 - 140	30
a-Chlordane	ND	70	75	6.9	72	73	1.4	40 - 140	30
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
Aldrin	ND	71	77	8.1	74	74	0.0	40 - 140	30
b-BHC	ND	74	80	7.8	80	77	3.8	40 - 140	30
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30
d-BHC	ND	70	75	6.9	73	72	1.4	40 - 140	30
Dieldrin	ND	68	73	7.1	70	71	1.4	40 - 140	30
Endosulfan I	ND	71	76	6.8	75	75	0.0	40 - 140	30
Endosulfan II	ND	65	67	3.0	72	73	1.4	40 - 140	30
Endosulfan sulfate	ND	66	71	7.3	72	73	1.4	40 - 140	30
Endrin	ND	66	69	4.4	66	67	1.5	40 - 140	30
Endrin aldehyde	ND	65	67	3.0	73	74	1.4	40 - 140	30
Endrin ketone	ND	62	68	9.2	66	67	1.5	40 - 140	30
g-BHC	ND	72	79	9.3	76	75	1.3	40 - 140	30
g-Chlordane	ND	69	74	7.0	71	71	0.0	40 - 140	30
Heptachlor	ND	73	80	9.2	75	77	2.6	40 - 140	30

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Heptachlor epoxide	ND	71	77	8.1	74	74	0.0	40 - 140	30	
Methoxychlor	ND	66	73	10.1	70	70	0.0	40 - 140	30	
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
% DCBP	67	66	69	4.4	65	65	0.0	30 - 150	30	
% TCMX	82	79	85	7.3	81	80	1.2	30 - 150	30	

QA/QC Batch 230788, QC Sample No: BD78879 (BD70311, BD70312 (50X) , BD70315 (50X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	101	103	2.0	98	99	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	85	89	4.6	87	87	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	81	82	1.2	74	60	20.9	70 - 130	30	m
1,1,2-Trichloroethane	ND	93	89	4.4	91	82	10.4	70 - 130	30	
1,1-Dichloroethane	ND	87	90	3.4	89	86	3.4	70 - 130	30	
1,1-Dichloroethene	ND	78	84	7.4	76	78	2.6	70 - 130	30	
1,1-Dichloropropene	ND	91	96	5.3	97	97	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	94	86	8.9	91	101	10.4	70 - 130	30	
1,2,3-Trichloropropane	ND	89	86	3.4	91	81	11.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	88	80	9.5	96	109	12.7	70 - 130	30	
1,2,4-Trimethylbenzene	ND	85	86	1.2	88	95	7.7	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	112	106	5.5	98	94	4.2	70 - 130	30	
1,2-Dibromoethane	ND	94	88	6.6	93	86	7.8	70 - 130	30	
1,2-Dichlorobenzene	ND	88	86	2.3	90	93	3.3	70 - 130	30	
1,2-Dichloroethane	ND	92	91	1.1	94	87	7.7	70 - 130	30	
1,2-Dichloropropane	ND	91	93	2.2	92	89	3.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	83	87	4.7	88	93	5.5	70 - 130	30	
1,3-Dichlorobenzene	ND	87	87	0.0	93	98	5.2	70 - 130	30	
1,3-Dichloropropane	ND	91	90	1.1	93	89	4.4	70 - 130	30	
1,4-Dichlorobenzene	ND	85	83	2.4	90	95	5.4	70 - 130	30	
2,2-Dichloropropane	ND	85	87	2.3	94	92	2.2	70 - 130	30	
2-Chlorotoluene	ND	93	97	4.2	96	101	5.1	70 - 130	30	
2-Hexanone	ND	76	66	14.1	89	81	9.4	70 - 130	30	l
2-Isopropyltoluene	ND	90	92	2.2	89	97	8.6	70 - 130	30	
4-Chlorotoluene	ND	88	89	1.1	96	101	5.1	70 - 130	30	
4-Methyl-2-pentanone	ND	91	83	9.2	91	81	11.6	70 - 130	30	
Acetone	ND	60	55	8.7	94	67	33.5	70 - 130	30	l,m,r
Acrylonitrile	ND	95	85	11.1	98	86	13.0	70 - 130	30	
Benzene	ND	83	86	3.6	91	89	2.2	70 - 130	30	
Bromobenzene	ND	96	101	5.1	98	98	0.0	70 - 130	30	
Bromochloromethane	ND	99	97	2.0	97	92	5.3	70 - 130	30	
Bromodichloromethane	ND	87	88	1.1	85	80	6.1	70 - 130	30	
Bromoform	ND	106	102	3.8	92	89	3.3	70 - 130	30	
Bromomethane	ND	85	92	7.9	50	48	4.1	70 - 130	30	m
Carbon Disulfide	ND	71	77	8.1	75	77	2.6	70 - 130	30	
Carbon tetrachloride	ND	99	103	4.0	94	95	1.1	70 - 130	30	
Chlorobenzene	ND	92	94	2.2	95	97	2.1	70 - 130	30	
Chloroethane	ND	78	85	8.6	<40	<40	NC	70 - 130	30	m
Chloroform	ND	82	84	2.4	83	80	3.7	70 - 130	30	
Chloromethane	ND	91	90	1.1	101	91	10.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	89	90	1.1	90	85	5.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	89	87	2.3	92	86	6.7	70 - 130	30	
Dibromochloromethane	ND	102	101	1.0	97	94	3.1	70 - 130	30	
Dibromomethane	ND	94	90	4.3	90	84	6.9	70 - 130	30	
Dichlorodifluoromethane	ND	90	94	4.3	95	97	2.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBD70309

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Ethylbenzene	ND	85	88	3.5	91	95	4.3	70 - 130	30	
Hexachlorobutadiene	ND	91	82	10.4	75	107	35.2	70 - 130	30	r
Isopropylbenzene	ND	92	98	6.3	95	100	5.1	70 - 130	30	
m&p-Xylene	ND	86	87	1.2	92	95	3.2	70 - 130	30	
Methyl ethyl ketone	ND	64	55	15.1	86	76	12.3	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	79	77	2.6	85	79	7.3	70 - 130	30	
Methylene chloride	ND	72	74	2.7	70	69	1.4	70 - 130	30	m
Naphthalene	ND	111	97	13.5	103	101	2.0	70 - 130	30	
n-Butylbenzene	ND	77	75	2.6	78	93	17.5	70 - 130	30	
n-Propylbenzene	ND	92	97	5.3	97	104	7.0	70 - 130	30	
o-Xylene	ND	88	89	1.1	94	97	3.1	70 - 130	30	
p-Isopropyltoluene	ND	91	93	2.2	93	105	12.1	70 - 130	30	
sec-Butylbenzene	ND	82	85	3.6	84	93	10.2	70 - 130	30	
Styrene	ND	83	82	1.2	89	91	2.2	70 - 130	30	
tert-Butylbenzene	ND	93	98	5.2	92	98	6.3	70 - 130	30	
Tetrachloroethene	ND	95	101	6.1	103	108	4.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	87	78	10.9	88	77	13.3	70 - 130	30	
Toluene	ND	85	87	2.3	91	90	1.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	78	80	2.5	80	80	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	88	84	4.7	90	84	6.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	87	83	4.7	92	83	10.3	70 - 130	30	
Trichloroethene	ND	102	105	2.9	115	120	4.3	70 - 130	30	
Trichlorofluoromethane	ND	85	91	6.8	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	89	97	8.6	95	97	2.1	70 - 130	30	
Vinyl chloride	ND	93	96	3.2	89	86	3.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	101	101	0.0	101	97	4.0	70 - 130	30	
% Bromofluorobenzene	91	97	94	3.1	96	97	1.0	70 - 130	30	
% Dibromofluoromethane	99	100	99	1.0	95	93	2.1	70 - 130	30	
% Toluene-d8	92	94	94	0.0	93	93	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 230567, QC Sample No: BD79161 (BD70312, BD70313, BD70314, BD70315, BD70316, BD70317, BD70318)

Pesticides - Soil

4,4' -DDD	ND	88	82	40 - 140	30	
4,4' -DDE	ND	93	91	40 - 140	30	
4,4' -DDT	ND	84	78	40 - 140	30	
a-BHC	ND	79	79	40 - 140	30	
a-Chlordane	ND	81	82	40 - 140	30	
Alachlor	ND	N/A	N/A	40 - 140	30	
Aldrin	ND	78	78	40 - 140	30	
b-BHC	ND	86	84	40 - 140	30	
Chlordane	ND	N/A	N/A	40 - 140	30	
d-BHC	ND	80	80	40 - 140	30	
Dieldrin	ND	83	83	40 - 140	30	
Endosulfan I	ND	83	84	40 - 140	30	
Endosulfan II	ND	82	84	40 - 140	30	
Endosulfan sulfate	ND	79	81	40 - 140	30	
Endrin	ND	80	65	40 - 140	30	
Endrin aldehyde	ND	82	94	40 - 140	30	
Endrin ketone	ND	84	89	40 - 140	30	
g-BHC	ND	85	85	40 - 140	30	
g-Chlordane	ND	88	88	40 - 140	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Heptachlor	ND	80			83			40 - 140	30	
Heptachlor epoxide	ND	76			77			40 - 140	30	
Methoxychlor	ND	83			76			40 - 140	30	
Toxaphene	ND	N/A			N/A			40 - 140	30	
% DCBP	53	91			83			30 - 150	30	
% TCMX	59	93			87			30 - 150	30	

Comment:

* The MSD could not be reported.

QA/QC Batch 230563, QC Sample No: BD79161 (BD70309, BD70310, BD70313, BD70314, BD70315, BD70316)

Semivolatiles - Soil

1,2-Dichlorobenzene	ND	63	64	1.6	77	76	1.3	30 - 130	30	
1,2-Diphenylhydrazine	ND	79	75	5.2	87	87	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	64	64	0.0	76	76	0.0	30 - 130	30	
1,4-Dichlorobenzene	ND	64	65	1.6	78	77	1.3	30 - 130	30	
2,4-Dinitrotoluene	ND	87	89	2.3	78	78	0.0	30 - 130	30	
2,6-Dinitrotoluene	ND	82	87	5.9	83	82	1.2	30 - 130	30	
2-Chloronaphthalene	ND	71	74	4.1	85	85	0.0	30 - 130	30	
2-Methylnaphthalene	ND	71	72	1.4	111	112	0.9	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3-Nitroaniline	ND	>150	>150	NC	56	55	1.8	30 - 130	30	l
4-Bromophenyl phenyl ether	ND	76	82	7.6	88	89	1.1	30 - 130	30	
4-Chloroaniline	ND	71	70	1.4	91	80	12.9	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	72	76	5.4	86	87	1.2	30 - 130	30	
4-Nitroaniline	ND	84	90	6.9	91	88	3.4	30 - 130	30	
Acenaphthene	ND	73	73	0.0	88	88	0.0	30 - 130	30	
Acenaphthylene	ND	75	76	1.3	87	87	0.0	30 - 130	30	
Anthracene	ND	72	77	6.7	87	89	2.3	30 - 130	30	
Benz(a)anthracene	ND	89	90	1.1	86	87	1.2	30 - 130	30	
Benzidine	ND	61	63	3.2	29	26	10.9	30 - 130	30	m
Benzo(a)pyrene	ND	84	83	1.2	80	83	3.7	30 - 130	30	
Benzo(b)fluoranthene	ND	93	89	4.4	113	118	4.3	30 - 130	30	
Benzo(ghi)perylene	ND	96	102	6.1	40	32	22.2	30 - 130	30	
Benzo(k)fluoranthene	ND	87	87	0.0	109	120	9.6	30 - 130	30	
Benzyl Alcohol	ND	62	68	9.2	<5	<5	NC	30 - 130	30	m
Benzyl butyl phthalate	ND	97	92	5.3	105	113	7.3	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	69	72	4.3	83	84	1.2	30 - 130	30	
Bis(2-chloroethyl)ether	ND	58	61	5.0	92	89	3.3	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	61	62	1.6	89	88	1.1	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	82	80	2.5	104	112	7.4	30 - 130	30	
Chrysene	ND	91	92	1.1	87	90	3.4	30 - 130	30	
Dibenz(a,h)anthracene	ND	87	89	2.3	50	43	15.1	30 - 130	30	
Dibenzofuran	ND	75	76	1.3	88	87	1.1	30 - 130	30	
Diethyl phthalate	ND	83	89	7.0	89	89	0.0	30 - 130	30	
Dimethylphthalate	ND	81	84	3.6	89	87	2.3	30 - 130	30	
Di-n-butylphthalate	ND	77	81	5.1	90	93	3.3	30 - 130	30	
Di-n-octylphthalate	ND	101	100	1.0	100	104	3.9	30 - 130	30	
Fluoranthene	ND	79	85	7.3	88	86	2.3	30 - 130	30	
Fluorene	ND	71	74	4.1	89	89	0.0	30 - 130	30	
Hexachlorobenzene	ND	69	74	7.0	84	87	3.5	30 - 130	30	
Hexachlorobutadiene	ND	70	73	4.2	78	77	1.3	30 - 130	30	
Hexachlorocyclopentadiene	ND	63	67	6.2	25	16	43.9	30 - 130	30	m,r

QA/QC Data

SDG I.D.: GBD70309

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Hexachloroethane	ND	62	62	0.0	72	71	1.4	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	91	94	3.2	47	39	18.6	30 - 130	30
Isophorone	ND	68	71	4.3	82	82	0.0	30 - 130	30
Naphthalene	ND	68	70	2.9	83	83	0.0	30 - 130	30
Nitrobenzene	ND	64	66	3.1	82	82	0.0	30 - 130	30
N-Nitrosodimethylamine	ND	68	69	1.5	90	88	2.2	30 - 130	30
N-Nitrosodi-n-propylamine	ND	65	68	4.5	81	80	1.2	30 - 130	30
N-Nitrosodiphenylamine	ND	93	96	3.2	96	97	1.0	30 - 130	30
Phenanthrene	ND	75	80	6.5	90	92	2.2	30 - 130	30
Pyrene	ND	81	85	4.8	85	84	1.2	30 - 130	30
% 2-Fluorobiphenyl	67	69	73	5.6	85	84	1.2	30 - 130	30
% Nitrobenzene-d5	64	64	65	1.6	82	82	0.0	30 - 130	30
% Terphenyl-d14	83	83	87	4.7	88	86	2.3	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%)

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
May 20, 2013

Sample Criteria Exceedences Report

GBD70309 - GC-ENV

Requested Criteria: None

State: NY

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

May 20, 2013

SDG I.D.: GBD70309

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

4°W/C+IC Temp Pg of

Data Delivery:
☑ Fax #: 631-206-3729
☑ Email: ravi kolaventi @ gc environmental.com

Customer: GC Environmental, Inc
Address: 22 Oak Street, Bay Shore, NY 11706

Project: 13-070-00
Report to: Ravi Kumar Kolaventi
Invoice to: Debra Brown

Project P.O: 9888
Phone #: 631-206-3700
Fax #: 631-206-3729

Sampler's Signature: [signature] Date: 05/07/13

Client Sample - Information - Identification

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

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs - 8260	B/N's only - 8270	PCB's - 8082	Pesticides - 8081	TAL Metals - 6010	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container (2) 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
70309	SB-1 (0-2)	S	05/07	11:35	X	X	X	X	X			2	2						
70310	SB-1 (12-14)	S	05/07	11:35	X	X	X	X	X			2	2						
70311	SB-3 (0-2)	S	05/02	09:00	X	X	X	X	X			4	4						
70312	SB-3 (12-14)	S	05/02	09:00	X	X	X	X	X			4	4						
70313	SB-8 (0-2)	S	05/06	09:00	X	X	X	X	X			2	2						
70314	SB-8 (12-14)	S	05/06	09:00	X	X	X	X	X			2	2						
70315	SB-9 (0-2)	S	05/03	01:10	X	X	X	X	X			2	2						
70316	SB-9 (12-14)	S	05/03	01:10	X	X	X	X	X			2	2						
70317	SB-10 (0-2)	S	05/02	02:00	X	X	X	X	X			2	2						
70318	SB-10 (12-14)	S	05/02	02:00	X	X	X	X	X			2	2						
												2	2						

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-9-13	12:39
[signature]	[signature]	5-9-13	1605

Comments, Special Requirements or Regulations:

* HOLD THE SAMPLES
* DONT PERFORM ANALYTICAL UNTIL YOU HEAR FROM ME.

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: _____

PHOENIX
Environmental Laboratories, Inc.

Monday, May 20, 2013

Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Project ID: 13-070-00
Sample ID#s: BD70273 - BD70282

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

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

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

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

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

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

NY # 11301

SDG Comments

May 20, 2013

SDG I.D.: GBD70273

BD70273 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70274 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70275 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70276 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70277 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70278 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70279 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70280 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70281 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70282 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/03/13	14:30
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70273

Project ID: 13-070-00
Client ID: SB-11 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.33	0.33	mg/Kg	05/16/13	LK	SW6010	
Aluminum	9360	49	mg/Kg	05/16/13	LK	SW6010	
Arsenic	3.1	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	113	0.33	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.44	0.26	mg/Kg	05/16/13	LK	SW6010	
Calcium	1130	4.9	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.50	0.33	mg/Kg	05/16/13	LK	SW6010	
Cobalt	5.10	0.33	mg/Kg	05/16/13	LK	SW6010	
Chromium	21.2	0.33	mg/Kg	05/16/13	LK	SW6010	
Copper	31.5	0.33	mg/kg	05/16/13	LK	SW6010	
Iron	24400	49	mg/Kg	05/16/13	LK	SW6010	
Mercury	0.62	0.07	mg/Kg	05/16/13	RS	SW-7471	
Potassium	796	4.9	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1650	4.9	mg/Kg	05/16/13	LK	SW6010	
Manganese	293	3.6	mg/Kg	05/16/13	LK	SW6010	
Sodium	131	4.9	mg/Kg	05/16/13	LK	SW6010	
Nickel	12.4	0.33	mg/Kg	05/16/13	LK	SW6010	
Lead	266	3.3	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.3	3.3	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.3	1.3	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 2.9	2.9	mg/Kg	05/16/13	LK	SW6010	
Vanadium	33.5	0.33	mg/Kg	05/16/13	LK	SW6010	
Zinc	84.6	0.33	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	91		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-11 (0-2)

Phoenix I.D.: BD70273

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	82		%	05/16/13	AW	30 - 150 %	
% TCMX	85		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	96	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	35	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	18	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	18	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.5	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	18	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	55	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	18	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	14	5.5	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	18	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	35	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.5	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	180	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	180	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	100		%	05/16/13	MH	30 - 150 %	
% TCMX	95		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-11 (0-2)

Phoenix I.D.: BD70273

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
2-Chlorotoluene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	120	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	80	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-11 (0-2)

Phoenix I.D.: BD70273

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.5	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	81		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	103		%	05/15/13	R/J	70 - 130 %	
% Toluene-d8	89		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	270	260	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Anthracene	460	260	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	1100	260	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	960	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	1200	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	650	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	490	260	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	370	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-11 (0-2)

Phoenix I.D.: BD70273

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Chrysene	1100	260	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	260	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	2500	260	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	520	260	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	260	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	290	260	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	2400	260	ug/Kg	05/16/13	DD	SW8270	
Pyrene	2100	260	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	84		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	80		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	94		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/03/13	14:30
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70274

Project ID: 13-070-00
Client ID: SB-11 (5-7)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.33	0.33	mg/Kg	05/16/13	LK	SW6010	
Aluminum	9030	49	mg/Kg	05/16/13	LK	SW6010	
Arsenic	3.2	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	107	0.33	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.38	0.26	mg/Kg	05/16/13	LK	SW6010	
Calcium	1200	4.9	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.45	0.33	mg/Kg	05/16/13	LK	SW6010	
Cobalt	4.67	0.33	mg/Kg	05/16/13	LK	SW6010	
Chromium	20.4	0.33	mg/Kg	05/16/13	LK	SW6010	
Copper	31.0	0.33	mg/kg	05/16/13	LK	SW6010	
Iron	23400	49	mg/Kg	05/16/13	LK	SW6010	
Mercury	0.45	0.07	mg/Kg	05/16/13	RS	SW-7471	
Potassium	972	4.9	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1930	4.9	mg/Kg	05/16/13	LK	SW6010	
Manganese	354	3.3	mg/Kg	05/16/13	LK	SW6010	
Sodium	136	4.9	mg/Kg	05/16/13	LK	SW6010	
Nickel	12.9	0.33	mg/Kg	05/16/13	LK	SW6010	
Lead	205	3.3	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.3	3.3	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.3	1.3	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 2.9	2.9	mg/Kg	05/16/13	LK	SW6010	
Vanadium	29.1	0.33	mg/Kg	05/16/13	LK	SW6010	
Zinc	72.7	0.33	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	92		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-11 (5-7)

Phoenix I.D.: BD70274

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	350	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	81		%	05/16/13	AW	30 - 150 %	
% TCMX	86		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	49	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	53	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	10	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	93		%	05/16/13	MH	30 - 150 %	
% TCMX	88		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-11 (5-7)

Phoenix I.D.: BD70274

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
2-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	180	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	60	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-11 (5-7)

Phoenix I.D.: BD70274

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	85		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	104		%	05/15/13	R/J	70 - 130 %	
% Toluene-d8	92		%	05/15/13	R/J	70 - 130 %	
Semivolatiles							
1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	450	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	440	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	540	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	310	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	360	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-11 (5-7)

Phoenix I.D.: BD70274

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	480	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	1100	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	970	250	ug/Kg	05/16/13	DD	SW8270	
Pyrene	940	250	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	85		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	78		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	92		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/06/13	12:15
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70275

Project ID: 13-070-00
Client ID: SB-13 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.36	0.36	mg/Kg	05/16/13	LK	SW6010	
Aluminum	9430	54	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.5	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	53.6	0.36	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.42	0.29	mg/Kg	05/16/13	LK	SW6010	
Calcium	937	5.4	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.40	0.36	mg/Kg	05/16/13	LK	SW6010	
Cobalt	8.22	0.36	mg/Kg	05/16/13	LK	SW6010	
Chromium	25.0	0.36	mg/Kg	05/16/13	LK	SW6010	
Copper	15.9	0.36	mg/kg	05/16/13	LK	SW6010	
Iron	24600	54	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.08	0.08	mg/Kg	05/16/13	RS	SW-7471	
Potassium	874	5.4	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1810	5.4	mg/Kg	05/16/13	LK	SW6010	
Manganese	557	3.6	mg/Kg	05/16/13	LK	SW6010	
Sodium	77.0	5.4	mg/Kg	05/16/13	LK	SW6010	
Nickel	13.0	0.36	mg/Kg	05/16/13	LK	SW6010	
Lead	40.3	0.36	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.6	3.6	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.2	3.2	mg/Kg	05/16/13	LK	SW6010	
Vanadium	30.3	0.36	mg/Kg	05/16/13	LK	SW6010	
Zinc	46.2	0.36	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	92		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-13 (0-2)

Phoenix I.D.: BD70275

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	93		%	05/16/13	AW	30 - 150 %	
% TCMX	81		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	35	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	35	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	94		%	05/16/13	MH	30 - 150 %	
% TCMX	92		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-13 (0-2)

Phoenix I.D.: BD70275

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	54	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-13 (0-2)

Phoenix I.D.: BD70275

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	88		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	99		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	94		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	290	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	310	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	350	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-13 (0-2)

Phoenix I.D.: BD70275

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	310	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	620	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	400	250	ug/Kg	05/16/13	DD	SW8270	
Pyrene	530	250	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	80		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	93		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/06/13	12:15
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70276

Project ID: 13-070-00
Client ID: SB-13 (5-7)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.39	0.39	mg/Kg	05/16/13	LK	SW6010	
Aluminum	7870	58	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.2	0.8	mg/Kg	05/16/13	LK	SW6010	
Barium	33.4	0.39	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.65	0.31	mg/Kg	05/16/13	LK	SW6010	
Calcium	555	5.8	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.46	0.39	mg/Kg	05/16/13	LK	SW6010	
Cobalt	9.61	0.39	mg/Kg	05/16/13	LK	SW6010	
Chromium	25.5	0.39	mg/Kg	05/16/13	LK	SW6010	
Copper	16.3	0.39	mg/kg	05/16/13	LK	SW6010	
Iron	28400	58	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.08	0.08	mg/Kg	05/16/13	RS	SW-7471	
Potassium	894	5.8	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1520	5.8	mg/Kg	05/16/13	LK	SW6010	
Manganese	669	3.9	mg/Kg	05/16/13	LK	SW6010	
Sodium	51.7	5.8	mg/Kg	05/16/13	LK	SW6010	
Nickel	12.1	0.39	mg/Kg	05/16/13	LK	SW6010	
Lead	7.81	0.39	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.9	3.9	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.5	3.5	mg/Kg	05/16/13	LK	SW6010	
Vanadium	33.8	0.39	mg/Kg	05/16/13	LK	SW6010	
Zinc	34.2	0.39	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	91		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-13 (5-7)

Phoenix I.D.: BD70276

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	98		%	05/16/13	AW	30 - 150 %	
% TCMX	79		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	35	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	35	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	35	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	35	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	94		%	05/16/13	MH	30 - 150 %	
% TCMX	94		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-13 (5-7)

Phoenix I.D.: BD70276

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	110	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-13 (5-7)

Phoenix I.D.: BD70276

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	5.5	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	92		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	103		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	94		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	360	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-13 (5-7)

Phoenix I.D.: BD70276

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	82		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	78		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	95		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	13:10
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70277

Project ID: 13-070-00
Client ID: SB-15 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.33	0.33	mg/Kg	05/16/13	LK	SW6010	
Aluminum	6870	50	mg/Kg	05/16/13	LK	SW6010	
Arsenic	5.0	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	107	0.33	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.33	0.27	mg/Kg	05/16/13	LK	SW6010	
Calcium	2320	5.0	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.86	0.33	mg/Kg	05/16/13	LK	SW6010	
Cobalt	4.74	0.33	mg/Kg	05/16/13	LK	SW6010	
Chromium	15.2	0.33	mg/Kg	05/16/13	LK	SW6010	
Copper	119	0.33	mg/kg	05/16/13	LK	SW6010	
Iron	15000	50	mg/Kg	05/16/13	LK	SW6010	
Mercury	0.18	0.08	mg/Kg	05/16/13	RS	SW-7471	
Potassium	805	5.0	mg/Kg	05/16/13	LK	SW6010	
Magnesium	2310	5.0	mg/Kg	05/16/13	LK	SW6010	
Manganese	254	3.3	mg/Kg	05/16/13	LK	SW6010	
Sodium	301	5.0	mg/Kg	05/16/13	LK	SW6010	
Nickel	19.7	0.33	mg/Kg	05/16/13	LK	SW6010	
Lead	116	0.33	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.3	3.3	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.3	1.3	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.0	3.0	mg/Kg	05/16/13	LK	SW6010	
Vanadium	20.4	0.33	mg/Kg	05/16/13	LK	SW6010	
Zinc	187	3.3	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	94		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-15 (0-2)

Phoenix I.D.: BD70277

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	340	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	340	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	340	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	340	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	340	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	340	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	340	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	340	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	340	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	99		%	05/16/13	AW	30 - 150 %	
% TCMX	91		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	33	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	33	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	33	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	16	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	16	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.2	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	16	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	52	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	16	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.2	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	16	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	33	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	33	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	33	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	33	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	33	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.2	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	10	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	16	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	160	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	160	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	94		%	05/16/13	MH	30 - 150 %	
% TCMX	87		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-15 (0-2)

Phoenix I.D.: BD70277

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	140	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	12	5.3	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-15 (0-2)

Phoenix I.D.: BD70277

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	5.3	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	81		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	105		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	90		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	240	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	240	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	240	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	240	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	240	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	240	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	240	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	240	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	240	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	240	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	240	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	240	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	240	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	520	240	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	460	240	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	670	240	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	340	240	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	240	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	340	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	240	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	240	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	240	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-15 (0-2)

Phoenix I.D.: BD70277

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	05/16/13	DD	SW8270	
Chrysene	590	240	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	240	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	240	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	240	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	240	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	240	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	240	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	1200	240	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	240	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	240	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	240	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	240	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	240	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	260	240	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	240	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	620	240	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	240	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	240	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	240	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	240	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	1200	240	ug/Kg	05/16/13	DD	SW8270	
Pyrene	1000	240	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	84		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	79		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	92		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	13:10
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70278

Project ID: 13-070-00
Client ID: SB-15 (12-14)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.39	0.39	mg/Kg	05/16/13	LK	SW6010	
Aluminum	11000	58	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.5	0.8	mg/Kg	05/16/13	LK	SW6010	
Barium	47.6	0.39	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.49	0.31	mg/Kg	05/16/13	LK	SW6010	
Calcium	2400	5.8	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.44	0.39	mg/Kg	05/16/13	LK	SW6010	
Cobalt	6.12	0.39	mg/Kg	05/16/13	LK	SW6010	
Chromium	24.4	0.39	mg/Kg	05/16/13	LK	SW6010	
Copper	19.8	0.39	mg/kg	05/16/13	LK	SW6010	
Iron	24500	58	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.06	0.06	mg/Kg	05/16/13	RS	SW-7471	
Potassium	1430	5.8	mg/Kg	05/16/13	LK	SW6010	
Magnesium	3590	5.8	mg/Kg	05/16/13	LK	SW6010	
Manganese	578	3.9	mg/Kg	05/16/13	LK	SW6010	
Sodium	131	5.8	mg/Kg	05/16/13	LK	SW6010	
Nickel	17.4	0.39	mg/Kg	05/16/13	LK	SW6010	
Lead	22.9	0.39	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.9	3.9	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.6	1.6	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.5	3.5	mg/Kg	05/16/13	LK	SW6010	
Vanadium	32.3	0.39	mg/Kg	05/16/13	LK	SW6010	
Zinc	53.0	0.39	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	92		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-15 (12-14)

Phoenix I.D.: BD70278

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	59		%	05/16/13	AW	30 - 150 %	
% TCMX	58		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	54	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.4	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	70		%	05/16/13	MH	30 - 150 %	
% TCMX	67		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-15 (12-14)

Phoenix I.D.: BD70278

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	180	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-15 (12-14)

Phoenix I.D.: BD70278

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	93		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	103		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	95		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	360	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-15 (12-14)

Phoenix I.D.: BD70278

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	330	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	350	250	ug/Kg	05/16/13	DD	SW8270	
Pyrene	300	250	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	76		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	95		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/03/13	8:50
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70279

Project ID: 13-070-00
Client ID: SB-16 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	05/16/13	LK	SW6010	
Aluminum	10400	56	mg/Kg	05/16/13	LK	SW6010	
Arsenic	3.0	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	38.8	0.37	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.61	0.30	mg/Kg	05/16/13	LK	SW6010	
Calcium	634	5.6	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.62	0.37	mg/Kg	05/16/13	LK	SW6010	
Cobalt	16.1	0.37	mg/Kg	05/16/13	LK	SW6010	
Chromium	25.4	0.37	mg/Kg	05/16/13	LK	SW6010	
Copper	20.6	0.37	mg/kg	05/16/13	LK	SW6010	
Iron	41600	56	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.08	0.08	mg/Kg	05/16/13	RS	SW-7471	
Potassium	1340	5.6	mg/Kg	05/16/13	LK	SW6010	
Magnesium	2340	5.6	mg/Kg	05/16/13	LK	SW6010	
Manganese	653	3.7	mg/Kg	05/16/13	LK	SW6010	
Sodium	122	5.6	mg/Kg	05/16/13	LK	SW6010	
Nickel	15.8	0.37	mg/Kg	05/16/13	LK	SW6010	
Lead	6.76	0.37	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.7	3.7	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.5	1.5	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.4	3.4	mg/Kg	05/16/13	LK	SW6010	
Vanadium	36.4	0.37	mg/Kg	05/16/13	LK	SW6010	
Zinc	34.6	0.37	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	92		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-16 (0-2)

Phoenix I.D.: BD70279

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	350	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	350	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	78		%	05/16/13	AW	30 - 150 %	
% TCMX	96		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	53	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	10	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	93		%	05/16/13	MH	30 - 150 %	
% TCMX	92		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-16 (0-2)

Phoenix I.D.: BD70279

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	120	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-16 (0-2)

Phoenix I.D.: BD70279

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	90		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	105		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	93		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	360	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-16 (0-2)

Phoenix I.D.: BD70279

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	80		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	96		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/03/13	8:10
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70280

Project ID: 13-070-00
Client ID: SB-16 (12-14)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.35	0.35	mg/Kg	05/16/13	LK	SW6010	
Aluminum	8100	53	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.4	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	38.3	0.35	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.46	0.28	mg/Kg	05/16/13	LK	SW6010	
Calcium	887	5.3	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.37	0.35	mg/Kg	05/16/13	LK	SW6010	
Cobalt	6.35	0.35	mg/Kg	05/16/13	LK	SW6010	
Chromium	22.0	0.35	mg/Kg	05/16/13	LK	SW6010	
Copper	15.9	0.35	mg/kg	05/16/13	LK	SW6010	
Iron	22200	53	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.07	0.07	mg/Kg	05/16/13	RS	SW-7471	
Potassium	1050	5.3	mg/Kg	05/16/13	LK	SW6010	
Magnesium	2250	5.3	mg/Kg	05/16/13	LK	SW6010	
Manganese	403	3.5	mg/Kg	05/16/13	LK	SW6010	
Sodium	111	5.3	mg/Kg	05/16/13	LK	SW6010	
Nickel	11.4	0.35	mg/Kg	05/16/13	LK	SW6010	
Lead	5.45	0.35	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.5	3.5	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.2	3.2	mg/Kg	05/16/13	LK	SW6010	
Vanadium	30.0	0.35	mg/Kg	05/16/13	LK	SW6010	
Zinc	27.3	0.35	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	92		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-16 (12-14)

Phoenix I.D.: BD70280

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	360	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	360	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	84		%	05/16/13	AW	30 - 150 %	
% TCMX	94		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	34	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	34	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	17	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	53	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	17	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	17	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	34	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	34	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.3	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	17	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	170	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	170	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	102		%	05/16/13	MH	30 - 150 %	
% TCMX	96		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-16 (12-14)

Phoenix I.D.: BD70280

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	110	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	91		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	107		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	94		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	360	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-16 (12-14)

Phoenix I.D.: BD70280

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	81		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	75		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	91		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/07/13	14:00
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70281

Project ID: 13-070-00
Client ID: SB-17 (0-2)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.34	0.34	mg/Kg	05/16/13	LK	SW6010	
Aluminum	9730	51	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.7	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	153	0.34	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.44	0.27	mg/Kg	05/16/13	LK	SW6010	
Calcium	7900	5.1	mg/Kg	05/16/13	LK	SW6010	
Cadmium	0.50	0.34	mg/Kg	05/16/13	LK	SW6010	
Cobalt	4.68	0.34	mg/Kg	05/16/13	LK	SW6010	
Chromium	16.1	0.34	mg/Kg	05/16/13	LK	SW6010	
Copper	12.5	0.34	mg/kg	05/16/13	LK	SW6010	
Iron	16900	51	mg/Kg	05/16/13	LK	SW6010	
Mercury	0.17	0.06	mg/Kg	05/16/13	RS	SW-7471	
Potassium	612	5.1	mg/Kg	05/16/13	LK	SW6010	
Magnesium	2840	5.1	mg/Kg	05/16/13	LK	SW6010	
Manganese	303	3.4	mg/Kg	05/16/13	LK	SW6010	
Sodium	234	5.1	mg/Kg	05/16/13	LK	SW6010	
Nickel	10.5	0.34	mg/Kg	05/16/13	LK	SW6010	
Lead	300	3.4	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.4	3.4	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.0	3.0	mg/Kg	05/16/13	LK	SW6010	
Vanadium	24.6	0.34	mg/Kg	05/16/13	LK	SW6010	
Zinc	165	3.4	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	88		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	JJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-17 (0-2)

Phoenix I.D.: BD70281

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	370	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	71		%	05/16/13	AW	30 - 150 %	
% TCMX	94		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	140	36	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	150	36	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	36	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	18	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	18	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.6	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	18	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	56	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	18	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	41	5.6	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	18	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	36	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	36	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	36	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	36	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	36	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.6	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	180	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	180	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	96		%	05/16/13	MH	30 - 150 %	
% TCMX	92		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-17 (0-2)

Phoenix I.D.: BD70281

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	28	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	110	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-17 (0-2)

Phoenix I.D.: BD70281

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	81		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	103		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	92		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	290	260	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	280	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	370	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	380	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Chrysene	320	260	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	260	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	840	260	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	260	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	380	260	ug/Kg	05/16/13	DD	SW8270	
Pyrene	810	260	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	94		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	79		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	156		%	05/16/13	DD	30 - 130 %	3

Project ID: 13-070-00
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Phoenix I.D.: BD70281

Parameter	Result	RL/ PQL	Units	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.
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.

* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/07/13	14:00
Location Code:	GC-ENV	Received by:	SW	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD70273
Phoenix ID: BD70282

Project ID: 13-070-00
Client ID: SB-17 (12-14)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Silver	< 0.34	0.34	mg/Kg	05/16/13	LK	SW6010	
Aluminum	8200	51	mg/Kg	05/16/13	LK	SW6010	
Arsenic	2.3	0.7	mg/Kg	05/16/13	LK	SW6010	
Barium	53.1	0.34	mg/Kg	05/16/13	LK	SW6010	
Beryllium	0.45	0.27	mg/Kg	05/16/13	LK	SW6010	
Calcium	836	5.1	mg/Kg	05/16/13	LK	SW6010	
Cadmium	< 0.34	0.34	mg/Kg	05/16/13	LK	SW6010	
Cobalt	5.88	0.34	mg/Kg	05/16/13	LK	SW6010	
Chromium	18.2	0.34	mg/Kg	05/16/13	LK	SW6010	
Copper	13.1	0.34	mg/kg	05/16/13	LK	SW6010	
Iron	19500	51	mg/Kg	05/16/13	LK	SW6010	
Mercury	< 0.07	0.07	mg/Kg	05/16/13	RS	SW-7471	
Potassium	936	5.1	mg/Kg	05/16/13	LK	SW6010	
Magnesium	1780	5.1	mg/Kg	05/16/13	LK	SW6010	
Manganese	451	3.4	mg/Kg	05/16/13	LK	SW6010	
Sodium	97.1	5.1	mg/Kg	05/16/13	LK	SW6010	
Nickel	10.1	0.34	mg/Kg	05/16/13	LK	SW6010	
Lead	10.9	0.34	mg/Kg	05/16/13	LK	SW6010	
Antimony	< 3.4	3.4	mg/Kg	05/16/13	LK	SW6010	
Selenium	< 1.4	1.4	mg/Kg	05/16/13	LK	SW6010	
Thallium	< 3.1	3.1	mg/Kg	05/16/13	LK	SW6010	
Vanadium	28.9	0.34	mg/Kg	05/16/13	LK	SW6010	
Zinc	27.4	0.34	mg/Kg	05/16/13	LK	SW6010	B
Percent Solid	88		%	05/15/13	JL	E160.3	
Soil Extraction for PCB	Completed			05/15/13	BB	SW3545	
Soil Extraction for Pesticide	Completed			05/15/13	BB/V	SW3545	
Soil Extraction for SVOA	Completed			05/15/13	JJ/V	SW3545	
Mercury Digestion	Completed			05/16/13	Z/Z	SW7471	

Project ID: 13-070-00
Client ID: SB-17 (12-14)

Phoenix I.D.: BD70282

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Total Metals Digest	Completed			05/15/13	Z/AG	SW846 - 3050	
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1221	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1232	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1242	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1248	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1254	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1260	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1262	ND	370	ug/Kg	05/16/13	AW	SW 8082	
PCB-1268	ND	370	ug/Kg	05/16/13	AW	SW 8082	
QA/QC Surrogates							
% DCBP	84		%	05/16/13	AW	30 - 150 %	
% TCMX	88		%	05/16/13	AW	30 - 150 %	
Pesticides							
4,4' -DDD	ND	36	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDE	ND	36	ug/Kg	05/16/13	MH	SW8081	
4,4' -DDT	ND	36	ug/Kg	05/16/13	MH	SW8081	
a-BHC	ND	18	ug/Kg	05/16/13	MH	SW8081	
Alachlor	ND	18	ug/Kg	05/16/13	MH	SW8081	1
Aldrin	ND	5.6	ug/Kg	05/16/13	MH	SW8081	
b-BHC	ND	18	ug/Kg	05/16/13	MH	SW8081	
Chlordane	ND	56	ug/Kg	05/16/13	MH	SW8081	
d-BHC	ND	18	ug/Kg	05/16/13	MH	SW8081	
Dieldrin	ND	5.6	ug/Kg	05/16/13	MH	SW8081	
Endosulfan I	ND	18	ug/Kg	05/16/13	MH	SW8081	
Endosulfan II	ND	36	ug/Kg	05/16/13	MH	SW8081	
Endosulfan sulfate	ND	36	ug/Kg	05/16/13	MH	SW8081	
Endrin	ND	36	ug/Kg	05/16/13	MH	SW8081	
Endrin aldehyde	ND	36	ug/Kg	05/16/13	MH	SW8081	
Endrin ketone	ND	36	ug/Kg	05/16/13	MH	SW8081	
g-BHC	ND	5.6	ug/Kg	05/16/13	MH	SW8081	
Heptachlor	ND	11	ug/Kg	05/16/13	MH	SW8081	
Heptachlor epoxide	ND	18	ug/Kg	05/16/13	MH	SW8081	
Methoxychlor	ND	180	ug/Kg	05/16/13	MH	SW8081	
Toxaphene	ND	180	ug/Kg	05/16/13	MH	SW8081	
QA/QC Surrogates							
% DCBP	99		%	05/16/13	MH	30 - 150 %	
% TCMX	94		%	05/16/13	MH	30 - 150 %	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1,1-Trichloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1,2-Trichloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,1-Dichloropropene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-17 (12-14)

Phoenix I.D.: BD70282

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2,3-Trichloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dibromoethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,2-Dichloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,3-Dichloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
1,4-Dichlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
2,2-Dichloropropane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
2-Chlorotoluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
2-Hexanone	ND	28	ug/Kg	05/16/13	R/J	SW8260	
2-Isopropyltoluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	1
4-Chlorotoluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
4-Methyl-2-pentanone	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	110	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	28	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	

Project ID: 13-070-00
Client ID: SB-17 (12-14)

Phoenix I.D.: BD70282

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
sec-Butylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	5.7	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	84		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	104		%	05/16/13	R/J	70 - 130 %	
% Toluene-d8	93		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	380	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-070-00
Client ID: SB-17 (12-14)

Phoenix I.D.: BD70282

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	260	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	260	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Nitrobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	88		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	76		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	140		%	05/16/13	DD	30 - 130 %	3

Project ID: 13-070-00 Phoenix I.D.: BD70282

Client ID: SB-17 (12-14)

Parameter	Result	RL/ PQL	Units	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.
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.

* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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
May 20, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 20, 2013

QA/QC Data

SDG I.D.: GBD70273

QA/QC Batch 230590, QC Sample No: BD70273 (BD70273, BD70274, BD70275, BD70276, BD70277, BD70278, BD70279, BD70280, BD70281, BD70282)

ICP Metals - Soil

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Aluminum	BRL	9360	9200	1.70	108	100	7.7	NC	NC	NC	75 - 125	30	
Antimony	BRL	<3.3	<3.6	NC	94.2	92.8	1.5	84.2	84.3	0.1	75 - 125	30	
Arsenic	BRL	3.1	2.95	NC	102	95.4	6.7	91.4	90.7	0.8	75 - 125	30	
Barium	BRL	113	92.3	20.2	106	100	5.8	107	101	5.8	75 - 125	30	
Beryllium	BRL	0.44	0.45	NC	103	96.6	6.4	95.1	94.4	0.7	75 - 125	30	
Cadmium	BRL	0.50	0.71	NC	105	103	1.9	93.6	93.1	0.5	75 - 125	30	
Calcium	BRL	1130	1150	1.80	103	101	2.0	NC	NC	NC	75 - 125	30	
Chromium	BRL	21.2	21.7	2.30	106	101	4.8	97.6	94.7	3.0	75 - 125	30	
Cobalt	BRL	5.10	5.19	1.70	106	101	4.8	94.9	94.0	1.0	75 - 125	30	
Copper	BRL	31.5	29.3	7.20	107	100	6.8	96.8	93.2	3.8	75 - 125	30	
Iron	BRL	24400	23600	3.30	111	102	8.5	NC	NC	NC	75 - 125	30	
Lead	BRL	266	201	27.8	103	96.5	6.5	77.0	76.4	0.8	75 - 125	30	
Magnesium	BRL	1650	1580	4.30	110	104	5.6	NC	NC	NC	75 - 125	30	
Manganese	BRL	293	342	15.4	105	101	3.9	88.2	61.7	35.4	75 - 125	30	m,r
Nickel	BRL	12.4	12.9	4.00	106	101	4.8	94.7	93.3	1.5	75 - 125	30	
Potassium	BRL	796	691	14.1	94.9	86.9	8.8	128	>130	NC	75 - 125	30	m
Selenium	BRL	<1.3	<1.4	NC	88.2	84.0	4.9	81.3	80.7	0.7	75 - 125	30	
Silver	BRL	<0.33	<0.36	NC	104	92.0	12.2	96.0	95.4	0.6	75 - 125	30	
Sodium	BRL	131	116	12.1	114	105	8.2	101	109	7.6	75 - 125	30	
Thallium	BRL	<2.9	<3.2	NC	103	98.9	4.1	93.1	92.5	0.6	75 - 125	30	
Vanadium	BRL	33.5	31.2	7.10	107	101	5.8	95.6	95.8	0.2	75 - 125	30	
Zinc	0.68	84.6	99.6	16.3	102	95.6	6.5	95.7	80.0	17.9	75 - 125	30	

QA/QC Batch 230670, QC Sample No: BD70274 (BD70273, BD70274, BD70275, BD70276, BD70277, BD70278, BD70279, BD70280, BD70281, BD70282)

Mercury - Soil	BRL	0.45	0.48	6.50	104	105	1.0	104	116	10.9	70 - 130	30

Comment:

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

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 20, 2013

QA/QC Data

SDG I.D.: GBD70273

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 230565, QC Sample No: BD70274 (BD70273, BD70274, BD70275, BD70276, BD70277, BD70278, BD70279, BD70280, BD70281, BD70282)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	85	80	6.1	80	76	5.1	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	80	76	5.1	76	66	14.1	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	90	98	96	2.1	89	89	0.0	30 - 150	30	
% TCMX (Surrogate Rec)	88	98	97	1.0	91	90	1.1	30 - 150	30	
QA/QC Batch 230792, QC Sample No: BD70277 (BD70273, BD70274, BD70275, BD70276, BD70278, BD70279, BD70280, BD70282)										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	105	103	1.9	95	127	28.8	70 - 130	30	
1,1,1-Trichloroethane	ND	87	85	2.3	85	109	24.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	94	91	3.2	121	>150	NC	70 - 130	30	m
1,1,2-Trichloroethane	ND	93	96	3.2	83	96	14.5	70 - 130	30	
1,1-Dichloroethane	ND	88	87	1.1	87	110	23.4	70 - 130	30	
1,1-Dichloroethene	ND	84	80	4.9	75	98	26.6	70 - 130	30	
1,1-Dichloropropene	ND	96	94	2.1	84	110	26.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	110	118	7.0	<40	41	NC	70 - 130	30	m
1,2,3-Trichloropropane	ND	95	90	5.4	124	>150	NC	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	114	121	6.0	<40	51	NC	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	96	94	2.1	62	106	52.4	70 - 130	30	m,r
1,2-Dibromo-3-chloropropane	ND	116	119	2.6	131	>150	NC	70 - 130	30	m
1,2-Dibromoethane	ND	94	97	3.1	79	90	13.0	70 - 130	30	
1,2-Dichlorobenzene	ND	98	96	2.1	66	95	36.0	70 - 130	30	m,r
1,2-Dichloroethane	ND	93	96	3.2	88	104	16.7	70 - 130	30	
1,2-Dichloropropane	ND	92	92	0.0	88	108	20.4	70 - 130	30	
1,3,5-Trimethylbenzene	ND	94	90	4.3	71	117	48.9	70 - 130	30	r
1,3-Dichlorobenzene	ND	104	100	3.9	69	106	42.3	70 - 130	30	m,r
1,3-Dichloropropane	ND	94	93	1.1	94	117	21.8	70 - 130	30	
1,4-Dichlorobenzene	ND	100	98	2.0	65	100	42.4	70 - 130	30	m,r
2,2-Dichloropropane	ND	91	91	0.0	85	110	25.6	70 - 130	30	
2-Chlorotoluene	ND	105	100	4.9	91	143	44.4	70 - 130	30	m,r
2-Hexanone	ND	83	83	0.0	72	82	13.0	70 - 130	30	
2-Isopropyltoluene	ND	98	95	3.1	66	111	50.8	70 - 130	30	m,r
4-Chlorotoluene	ND	102	99	3.0	84	132	44.4	70 - 130	30	m,r
4-Methyl-2-pentanone	ND	94	95	1.1	74	80	7.8	70 - 130	30	

QA/QC Data

SDG I.D.: GBD70273

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acetone	ND	73	70	4.2	NC	NC	NC	70 - 130	30	
Acrylonitrile	ND	93	96	3.2	84	87	3.5	70 - 130	30	
Benzene	ND	86	85	1.2	79	100	23.5	70 - 130	30	
Bromobenzene	ND	106	102	3.8	104	147	34.3	70 - 130	30	m,r
Bromochloromethane	ND	99	99	0.0	93	111	17.6	70 - 130	30	
Bromodichloromethane	ND	90	89	1.1	79	98	21.5	70 - 130	30	
Bromoform	ND	109	108	0.9	89	108	19.3	70 - 130	30	
Bromomethane	ND	89	82	8.2	67	103	42.4	70 - 130	30	m,r
Carbon Disulfide	ND	78	73	6.6	57	79	32.4	70 - 130	30	m,r
Carbon tetrachloride	ND	101	101	0.0	91	117	25.0	70 - 130	30	
Chlorobenzene	ND	99	97	2.0	79	107	30.1	70 - 130	30	
Chloroethane	ND	84	79	6.1	79	106	29.2	70 - 130	30	
Chloroform	ND	82	83	1.2	80	100	22.2	70 - 130	30	
Chloromethane	ND	88	90	2.2	87	113	26.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	89	90	1.1	80	98	20.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	93	95	2.1	76	93	20.1	70 - 130	30	
Dibromochloromethane	ND	105	105	0.0	99	124	22.4	70 - 130	30	
Dibromomethane	ND	93	97	4.2	80	92	14.0	70 - 130	30	
Dichlorodifluoromethane	ND	89	89	0.0	95	124	26.5	70 - 130	30	
Ethylbenzene	ND	92	90	2.2	73	105	36.0	70 - 130	30	r
Hexachlorobutadiene	ND	105	111	5.6	<40	63	NC	70 - 130	30	m
Isopropylbenzene	ND	102	96	6.1	98	>150	NC	70 - 130	30	m
m&p-Xylene	ND	94	93	1.1	68	98	36.1	70 - 130	30	m,r
Methyl ethyl ketone	ND	68	72	5.7	75	77	2.6	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	80	80	0.0	92	103	11.3	70 - 130	30	
Methylene chloride	ND	75	74	1.3	86	130	40.7	70 - 130	30	r
Naphthalene	ND	109	125	13.7	49	94	62.9	70 - 130	30	m,r
n-Butylbenzene	ND	93	94	1.1	43	87	67.7	70 - 130	30	m,r
n-Propylbenzene	ND	105	99	5.9	86	143	49.8	70 - 130	30	m,r
o-Xylene	ND	94	93	1.1	71	99	32.9	70 - 130	30	r
p-Isopropyltoluene	ND	106	102	3.8	64	117	58.6	70 - 130	30	m,r
sec-Butylbenzene	ND	90	87	3.4	62	108	54.1	70 - 130	30	m,r
Styrene	ND	89	89	0.0	65	90	32.3	70 - 130	30	m,r
tert-Butylbenzene	ND	101	95	6.1	78	130	50.0	70 - 130	30	r
Tetrachloroethene	ND	106	104	1.9	88	127	36.3	70 - 130	30	r
Tetrahydrofuran (THF)	ND	86	89	3.4	95	100	5.1	70 - 130	30	
Toluene	ND	88	88	0.0	73	94	25.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	81	80	1.2	67	87	26.0	70 - 130	30	m
trans-1,3-Dichloropropene	ND	92	94	2.2	70	81	14.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	100	99	1.0	95	114	18.2	70 - 130	30	
Trichloroethene	ND	102	99	3.0	86	112	26.3	70 - 130	30	
Trichlorofluoromethane	ND	90	86	4.5	84	112	28.6	70 - 130	30	
Trichlorotrifluoroethane	ND	94	94	0.0	90	121	29.4	70 - 130	30	
Vinyl chloride	ND	93	94	1.1	83	107	25.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	101	101	0.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	95	97	99	2.0	84	83	1.2	70 - 130	30	
% Dibromofluoromethane	98	99	99	0.0	107	106	0.9	70 - 130	30	
% Toluene-d8	95	94	94	0.0	89	88	1.1	70 - 130	30	

Comment:

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

QA/QC Data

SDG I.D.: GBD70273

QA/QC Batch 230562, QC Sample No: BD70288 (BD70273, BD70274, BD70275, BD70276, BD70277, BD70278, BD70279, BD70280)

Semivolatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichlorobenzene	ND	70	74	5.6	75	76	1.3	30 - 130	30	
1,2-Diphenylhydrazine	ND	89	94	5.5	97	102	5.0	30 - 130	30	
1,3-Dichlorobenzene	ND	69	73	5.6	74	76	2.7	30 - 130	30	
1,4-Dichlorobenzene	ND	71	76	6.8	75	77	2.6	30 - 130	30	
2,4-Dinitrotoluene	ND	85	94	10.1	94	100	6.2	30 - 130	30	
2,6-Dinitrotoluene	ND	76	80	5.1	82	88	7.1	30 - 130	30	
2-Chloronaphthalene	ND	84	89	5.8	89	97	8.6	30 - 130	30	
2-Methylnaphthalene	ND	77	86	11.0	90	88	2.2	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3-Nitroaniline	ND	132	>150	NC	140	147	4.9	30 - 130	30	l,m
4-Bromophenyl phenyl ether	ND	88	92	4.4	98	102	4.0	30 - 130	30	
4-Chloroaniline	ND	77	85	9.9	74	77	4.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	89	100	11.6	97	101	4.0	30 - 130	30	
4-Nitroaniline	ND	81	86	6.0	90	100	10.5	30 - 130	30	
Acenaphthene	ND	84	90	6.9	91	95	4.3	30 - 130	30	
Acenaphthylene	ND	78	83	6.2	85	88	3.5	30 - 130	30	
Anthracene	ND	79	87	9.6	91	96	5.3	30 - 130	30	
Benz(a)anthracene	ND	103	115	11.0	121	121	0.0	30 - 130	30	
Benzidine	ND	83	89	7.0	20	25	22.2	30 - 130	30	m
Benzo(a)pyrene	ND	74	85	13.8	89	91	2.2	30 - 130	30	
Benzo(b)fluoranthene	ND	87	94	7.7	105	105	0.0	30 - 130	30	
Benzo(ghi)perylene	ND	65	79	19.4	76	81	6.4	30 - 130	30	
Benzo(k)fluoranthene	ND	98	109	10.6	115	120	4.3	30 - 130	30	
Benzyl Alcohol	ND	45	57	23.5	39	41	5.0	30 - 130	30	
Benzyl butyl phthalate	ND	79	92	15.2	84	89	5.8	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	72	76	5.4	83	83	0.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	62	65	4.7	67	67	0.0	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	72	75	4.1	77	78	1.3	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	72	83	14.2	96	97	1.0	30 - 130	30	
Chrysene	ND	114	129	12.3	144	146	1.4	30 - 130	30	m
Dibenz(a,h)anthracene	ND	93	124	28.6	108	114	5.4	30 - 130	30	
Dibenzofuran	ND	86	95	9.9	95	102	7.1	30 - 130	30	
Diethyl phthalate	ND	87	92	5.6	93	97	4.2	30 - 130	30	
Dimethylphthalate	ND	83	87	4.7	92	96	4.3	30 - 130	30	
Di-n-butylphthalate	ND	84	95	12.3	88	97	9.7	30 - 130	30	
Di-n-octylphthalate	ND	113	124	9.3	144	144	0.0	30 - 130	30	m
Fluoranthene	ND	85	94	10.1	93	96	3.2	30 - 130	30	
Fluorene	ND	91	101	10.4	100	101	1.0	30 - 130	30	
Hexachlorobenzene	ND	93	96	3.2	105	115	9.1	30 - 130	30	
Hexachlorobutadiene	ND	84	87	3.5	91	94	3.2	30 - 130	30	
Hexachlorocyclopentadiene	ND	63	75	17.4	73	73	0.0	30 - 130	30	
Hexachloroethane	ND	79	84	6.1	87	88	1.1	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	83	106	24.3	97	102	5.0	30 - 130	30	
Isophorone	ND	78	82	5.0	86	89	3.4	30 - 130	30	
Naphthalene	ND	78	83	6.2	89	87	2.3	30 - 130	30	
Nitrobenzene	ND	76	83	8.8	84	83	1.2	30 - 130	30	
N-Nitrosodimethylamine	ND	58	66	12.9	60	54	10.5	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	79	89	11.9	85	85	0.0	30 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
N-Nitrosodiphenylamine	ND	90	101	11.5	101	105	3.9	30 - 130	30	
Phenanthrene	ND	84	93	10.2	98	103	5.0	30 - 130	30	
Pyrene	ND	84	90	6.9	91	97	6.4	30 - 130	30	
% 2-Fluorobiphenyl	77	86	86	0.0	87	96	9.8	30 - 130	30	
% Nitrobenzene-d5	81	76	80	5.1	82	84	2.4	30 - 130	30	
% Terphenyl-d14	88	97	97	0.0	88	102	14.7	30 - 130	30	

Comment:

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

QA/QC Batch 231358, QC Sample No: BD70318 (BD70277, BD70281)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	100	105	4.9	104	101	2.9	70 - 130	30	
1,1,1-Trichloroethane	ND	85	91	6.8	92	95	3.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	87	88	1.1	94	94	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	91	94	3.2	96	90	6.5	70 - 130	30	
1,1-Dichloroethane	ND	88	92	4.4	93	96	3.2	70 - 130	30	
1,1-Dichloroethene	ND	79	85	7.3	80	87	8.4	70 - 130	30	
1,1-Dichloropropene	ND	94	98	4.2	103	102	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	106	104	1.9	112	65	53.1	70 - 130	30	m,r
1,2,3-Trichloropropane	ND	87	88	1.1	96	100	4.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	110	109	0.9	120	63	62.3	70 - 130	30	m,r
1,2,4-Trimethylbenzene	ND	93	95	2.1	118	81	37.2	70 - 130	30	r
1,2-Dibromo-3-chloropropane	ND	104	104	0.0	108	104	3.8	70 - 130	30	
1,2-Dibromoethane	ND	91	93	2.2	99	93	6.3	70 - 130	30	
1,2-Dichlorobenzene	ND	94	96	2.1	99	75	27.6	70 - 130	30	
1,2-Dichloroethane	ND	92	93	1.1	99	95	4.1	70 - 130	30	
1,2-Dichloropropane	ND	90	94	4.3	98	95	3.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	90	93	3.3	109	80	30.7	70 - 130	30	r
1,3-Dichlorobenzene	ND	98	100	2.0	103	75	31.5	70 - 130	30	r
1,3-Dichloropropane	ND	90	93	3.3	96	95	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	96	97	1.0	101	70	36.3	70 - 130	30	r
2,2-Dichloropropane	ND	91	95	4.3	98	102	4.0	70 - 130	30	
2-Chlorotoluene	ND	100	103	3.0	102	82	21.7	70 - 130	30	
2-Hexanone	ND	75	76	1.3	60	58	3.4	70 - 130	30	m
2-Isopropyltoluene	ND	94	97	3.1	102	68	40.0	70 - 130	30	m,r
4-Chlorotoluene	ND	97	98	1.0	105	77	30.8	70 - 130	30	r
4-Methyl-2-pentanone	ND	87	89	2.3	93	87	6.7	70 - 130	30	
Acetone	ND	68	73	7.1	<40	40	NC	70 - 130	30	l,m
Acrylonitrile	ND	94	92	2.2	107	99	7.8	70 - 130	30	
Benzene	ND	85	88	3.5	91	91	0.0	70 - 130	30	
Bromobenzene	ND	101	102	1.0	102	90	12.5	70 - 130	30	
Bromochloromethane	ND	97	100	3.0	104	102	1.9	70 - 130	30	
Bromodichloromethane	ND	86	89	3.4	90	88	2.2	70 - 130	30	
Bromoform	ND	99	105	5.9	99	96	3.1	70 - 130	30	
Bromomethane	ND	84	88	4.7	54	64	16.9	70 - 130	30	m
Carbon Disulfide	ND	72	78	8.0	80	86	7.2	70 - 130	30	
Carbon tetrachloride	ND	98	103	5.0	104	102	1.9	70 - 130	30	
Chlorobenzene	ND	95	100	5.1	101	92	9.3	70 - 130	30	
Chloroethane	ND	80	87	8.4	<40	<40	NC	70 - 130	30	m
Chloroform	ND	82	86	4.8	88	88	0.0	70 - 130	30	
Chloromethane	ND	92	91	1.1	102	97	5.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	90	92	2.2	95	94	1.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBD70273

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	89	92	3.3	98	92	6.3	70 - 130	30	
Dibromochloromethane	ND	101	105	3.9	101	101	0.0	70 - 130	30	
Dibromomethane	ND	92	94	2.2	96	91	5.3	70 - 130	30	
Dichlorodifluoromethane	ND	96	93	3.2	91	96	5.3	70 - 130	30	
Ethylbenzene	ND	88	93	5.5	99	86	14.1	70 - 130	30	
Hexachlorobutadiene	ND	100	102	2.0	114	<40	NC	70 - 130	30	m
Isopropylbenzene	ND	97	101	4.0	101	85	17.2	70 - 130	30	
m&p-Xylene	ND	91	94	3.2	104	88	16.7	70 - 130	30	
Methyl ethyl ketone	ND	71	69	2.9	56	54	3.6	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	77	79	2.6	87	86	1.2	70 - 130	30	
Methylene chloride	ND	70	75	6.9	72	76	5.4	70 - 130	30	
Naphthalene	ND	110	99	10.5	115	84	31.2	70 - 130	30	r
n-Butylbenzene	ND	91	91	0.0	99	47	71.2	70 - 130	30	m,r
n-Propylbenzene	ND	100	104	3.9	105	78	29.5	70 - 130	30	
o-Xylene	ND	90	94	4.3	106	91	15.2	70 - 130	30	
p-Isopropyltoluene	ND	101	104	2.9	109	65	50.6	70 - 130	30	m,r
sec-Butylbenzene	ND	87	90	3.4	95	65	37.5	70 - 130	30	m,r
Styrene	ND	86	87	1.2	97	82	16.8	70 - 130	30	
tert-Butylbenzene	ND	96	99	3.1	100	76	27.3	70 - 130	30	
Tetrachloroethene	ND	102	109	6.6	109	101	7.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	85	83	2.4	97	90	7.5	70 - 130	30	
Toluene	ND	86	90	4.5	95	88	7.7	70 - 130	30	
trans-1,2-Dichloroethene	ND	81	84	3.6	86	86	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	89	90	1.1	97	89	8.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	95	92	3.2	94	89	5.5	70 - 130	30	
Trichloroethene	ND	99	104	4.9	104	100	3.9	70 - 130	30	
Trichlorofluoromethane	ND	86	91	5.6	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	93	100	7.3	98	107	8.8	70 - 130	30	
Vinyl chloride	ND	96	97	1.0	91	94	3.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	103	101	102	1.0	99	100	1.0	70 - 130	30	
% Bromofluorobenzene	94	96	97	1.0	97	98	1.0	70 - 130	30	
% Dibromofluoromethane	97	101	101	0.0	96	95	1.0	70 - 130	30	
% Toluene-d8	94	93	94	1.1	94	93	1.1	70 - 130	30	

Comment:

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

QA/QC Batch 230441, QC Sample No: BD78183 (BD70273, BD70274, BD70275, BD70276, BD70277, BD70278, BD70279, BD70280, BD70281, BD70282)

Pesticides - Soil

4,4' -DDD	ND	67	76	12.6	73	73	0.0	40 - 140	30	
4,4' -DDE	ND	67	73	8.6	70	69	1.4	40 - 140	30	
4,4' -DDT	ND	68	73	7.1	70	71	1.4	40 - 140	30	
a-BHC	ND	72	78	8.0	75	75	0.0	40 - 140	30	
a-Chlordane	ND	70	75	6.9	72	73	1.4	40 - 140	30	
Alachlor	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
Aldrin	ND	71	77	8.1	74	74	0.0	40 - 140	30	
b-BHC	ND	74	80	7.8	80	77	3.8	40 - 140	30	
Chlordane	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
d-BHC	ND	70	75	6.9	73	72	1.4	40 - 140	30	
Dieldrin	ND	68	73	7.1	70	71	1.4	40 - 140	30	
Endosulfan I	ND	71	76	6.8	75	75	0.0	40 - 140	30	
Endosulfan II	ND	65	67	3.0	72	73	1.4	40 - 140	30	
Endosulfan sulfate	ND	66	71	7.3	72	73	1.4	40 - 140	30	

QA/QC Data

SDG I.D.: GBD70273

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Endrin	ND	66	69	4.4	66	67	1.5	40 - 140	30	
Endrin aldehyde	ND	65	67	3.0	73	74	1.4	40 - 140	30	
Endrin ketone	ND	62	68	9.2	66	67	1.5	40 - 140	30	
g-BHC	ND	72	79	9.3	76	75	1.3	40 - 140	30	
g-Chlordane	ND	69	74	7.0	71	71	0.0	40 - 140	30	
Heptachlor	ND	73	80	9.2	75	77	2.6	40 - 140	30	
Heptachlor epoxide	ND	71	77	8.1	74	74	0.0	40 - 140	30	
Methoxychlor	ND	66	73	10.1	70	70	0.0	40 - 140	30	
Toxaphene	ND	N/A	N/A	NC	N/A	N/A	NC	40 - 140	30	
% DCBP	67	66	69	4.4	65	65	0.0	30 - 150	30	
% TCMX	82	79	85	7.3	81	80	1.2	30 - 150	30	

QA/QC Batch 230563, QC Sample No: BD79161 (BD70281, BD70282)

Semivolatiles - Soil

1,2-Dichlorobenzene	ND	63	64	1.6	77	76	1.3	30 - 130	30	
1,2-Diphenylhydrazine	ND	79	75	5.2	87	87	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	64	64	0.0	76	76	0.0	30 - 130	30	
1,4-Dichlorobenzene	ND	64	65	1.6	78	77	1.3	30 - 130	30	
2,4-Dinitrotoluene	ND	87	89	2.3	78	78	0.0	30 - 130	30	
2,6-Dinitrotoluene	ND	82	87	5.9	83	82	1.2	30 - 130	30	
2-Chloronaphthalene	ND	71	74	4.1	85	85	0.0	30 - 130	30	
2-Methylnaphthalene	ND	71	72	1.4	111	112	0.9	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3-Nitroaniline	ND	>150	>150	NC	56	55	1.8	30 - 130	30	l
4-Bromophenyl phenyl ether	ND	76	82	7.6	88	89	1.1	30 - 130	30	
4-Chloroaniline	ND	71	70	1.4	91	80	12.9	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	72	76	5.4	86	87	1.2	30 - 130	30	
4-Nitroaniline	ND	84	90	6.9	91	88	3.4	30 - 130	30	
Acenaphthene	ND	73	73	0.0	88	88	0.0	30 - 130	30	
Acenaphthylene	ND	75	76	1.3	87	87	0.0	30 - 130	30	
Anthracene	ND	72	77	6.7	87	89	2.3	30 - 130	30	
Benz(a)anthracene	ND	89	90	1.1	86	87	1.2	30 - 130	30	
Benzidine	ND	61	63	3.2	29	26	10.9	30 - 130	30	m
Benzo(a)pyrene	ND	84	83	1.2	80	83	3.7	30 - 130	30	
Benzo(b)fluoranthene	ND	93	89	4.4	113	118	4.3	30 - 130	30	
Benzo(ghi)perylene	ND	96	102	6.1	40	32	22.2	30 - 130	30	
Benzo(k)fluoranthene	ND	87	87	0.0	109	120	9.6	30 - 130	30	
Benzyl Alcohol	ND	62	68	9.2	<5	<5	NC	30 - 130	30	m
Benzyl butyl phthalate	ND	97	92	5.3	105	113	7.3	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	69	72	4.3	83	84	1.2	30 - 130	30	
Bis(2-chloroethyl)ether	ND	58	61	5.0	92	89	3.3	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	61	62	1.6	89	88	1.1	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	82	80	2.5	104	112	7.4	30 - 130	30	
Chrysene	ND	91	92	1.1	87	90	3.4	30 - 130	30	
Dibenz(a,h)anthracene	ND	87	89	2.3	50	43	15.1	30 - 130	30	
Dibenzofuran	ND	75	76	1.3	88	87	1.1	30 - 130	30	
Diethyl phthalate	ND	83	89	7.0	89	89	0.0	30 - 130	30	
Dimethylphthalate	ND	81	84	3.6	89	87	2.3	30 - 130	30	
Di-n-butylphthalate	ND	77	81	5.1	90	93	3.3	30 - 130	30	
Di-n-octylphthalate	ND	101	100	1.0	100	104	3.9	30 - 130	30	
Fluoranthene	ND	79	85	7.3	88	86	2.3	30 - 130	30	
Fluorene	ND	71	74	4.1	89	89	0.0	30 - 130	30	

QA/QC Data

SDG I.D.: GBD70273

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Hexachlorobenzene	ND	69	74	7.0	84	87	3.5	30 - 130	30	
Hexachlorobutadiene	ND	70	73	4.2	78	77	1.3	30 - 130	30	
Hexachlorocyclopentadiene	ND	63	67	6.2	25	16	43.9	30 - 130	30	m,r
Hexachloroethane	ND	62	62	0.0	72	71	1.4	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	91	94	3.2	47	39	18.6	30 - 130	30	
Isophorone	ND	68	71	4.3	82	82	0.0	30 - 130	30	
Naphthalene	ND	68	70	2.9	83	83	0.0	30 - 130	30	
Nitrobenzene	ND	64	66	3.1	82	82	0.0	30 - 130	30	
N-Nitrosodimethylamine	ND	68	69	1.5	90	88	2.2	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	65	68	4.5	81	80	1.2	30 - 130	30	
N-Nitrosodiphenylamine	ND	93	96	3.2	96	97	1.0	30 - 130	30	
Phenanthrene	ND	75	80	6.5	90	92	2.2	30 - 130	30	
Pyrene	ND	81	85	4.8	85	84	1.2	30 - 130	30	
% 2-Fluorobiphenyl	67	69	73	5.6	85	84	1.2	30 - 130	30	
% Nitrobenzene-d5	64	64	65	1.6	82	82	0.0	30 - 130	30	
% Terphenyl-d14	83	83	87	4.7	88	86	2.3	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%)

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
May 20, 2013

Sample Criteria Exceedences Report

GBD70273 - GC-ENV

Requested Criteria: None

State: NY

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

May 20, 2013

SDG I.D.: GBD70273

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

4°w/C + IP Temp Pg of

Data Delivery:
☑ Fax #: 631-206-3729
☑ Email: ravi kolaventi @ gc environmental .com

Customer: G C Environmental, Inc
Address: 22 Oak Street
Bay Shore, NY 11706

Project: 13-070-00
Report to: Ravi Kumar Kolaventa
Invoice to: Debra Brown

Project P.O: 9888
Phone #: 631-206-3700
Fax #: 631-206-3789

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 05/07/13

Analysis Request

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

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs - 8260	BNS - 8270 - only BNS	PCB's - 8082	Pesticides - 8081	TAL Metals - 6010	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container (2) 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
70273	SB-11 (0-2)	S	05/03/13	02:30pm	X	X	X	X	X								2	1	
* 70274	SB-11 (5-7)	S	05/03/13	02:30pm	X	X	X	X	X								2	1	
(*) 70275	SB-13 (0-2)	S	05/06/13	12:15pm	X	X	X	X	X								2	1	
70276	SB-13 (5-7)	S	05/06/13	12:15pm	X	X	X	X	X								2	1	
70277	SB-15 (0-2)	S	05/02/13	01:10pm	X	X	X	X	X								2	1	
70278	SB-15 (12-14)	S	05/02/13	01:10pm	X	X	X	X	X								3	1	
70279	SB-16 (0-2)	S	05/03/13	08:50am	X	X	X	X	X								3	1	
70280	SB-16 (12-14)	S	05/03/13	08:50am	X	X	X	X	X								3	1	
70281	SB-17 (0-2)	S	05/07/13	02:00pm	X	X	X	X	X								3	1	
70282	SB-17 (12-14)	S	05/07/13	02:00pm	X	X	X	X	X								2	3	
																	2	3	

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-9-13	12:34
	[signature]	5-9-13	1605

Comments, Special Requirements or Regulations:

* HOLD THE SAMPLES UNTIL YOU HEAR FROM ME
DONT RUN THE SAMPLES
*labeled SB11 (7-8) (*) labeled SB13 (0-5) (*)

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: _____

PHOENIX
Environmental Laboratories, Inc.

Monday, May 20, 2013

Attn: Mr. Ravi Kumar Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Project ID: 13-049-00
Sample ID#s: BD70283 - BD70288

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

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

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

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

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

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

NY # 11301

SDG Comments

May 20, 2013

SDG I.D.: GBD70283

BD70283 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70284 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70285 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70286 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70287 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

BD70288 - Client provided soil jar for volatile analysis. Phoenix prepared sample per method 5035.

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

May 20, 2013

FOR: Attn: Mr. Ravi Kumar Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	10:00
Location Code:	GC-ENV	Received by:	LB	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9897				

Laboratory Data

SDG ID: GBD70283
Phoenix ID: BD70283

Project ID: 13-049-00
Client ID: SB-4 5-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	90		%	05/15/13	JL	E160.3
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545
Volatiles						
1,1,1,2-Tetrachloroethane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,1,1-Trichloroethane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,1,2-Trichloroethane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,1-Dichloroethane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,1-Dichloroethene	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,1-Dichloropropene	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,2,3-Trichloropropane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,2-Dibromoethane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,2-Dichlorobenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,2-Dichloroethane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,2-Dichloropropane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,3-Dichlorobenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,3-Dichloropropane	ND	280	ug/Kg	05/16/13	R/J	SW8260
1,4-Dichlorobenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260
2,2-Dichloropropane	ND	280	ug/Kg	05/16/13	R/J	SW8260
2-Chlorotoluene	ND	280	ug/Kg	05/16/13	R/J	SW8260
2-Hexanone	ND	1400	ug/Kg	05/16/13	R/J	SW8260
2-Isopropyltoluene	ND	280	ug/Kg	05/16/13	R/J	SW8260 1
4-Chlorotoluene	ND	280	ug/Kg	05/16/13	R/J	SW8260

Project ID: 13-049-00
Client ID: SB-4 5-10

Phoenix I.D.: BD70283

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	1400	ug/Kg	05/16/13	R/J	SW8260	
Acetone	ND	1400	ug/Kg	05/16/13	R/J	SW8260	
Acrylonitrile	ND	560	ug/Kg	05/16/13	R/J	SW8260	
Benzene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Bromobenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Bromochloromethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Bromodichloromethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Bromoform	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Bromomethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Carbon Disulfide	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Carbon tetrachloride	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Chlorobenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Chloroethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Chloroform	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Chloromethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	280	ug/Kg	05/16/13	R/J	SW8260	1
Dibromochloromethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Dibromomethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Dichlorodifluoromethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Ethylbenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Hexachlorobutadiene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Isopropylbenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
m&p-Xylene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	1400	ug/Kg	05/16/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	560	ug/Kg	05/16/13	R/J	SW8260	
Methylene chloride	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Naphthalene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
n-Butylbenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
n-Propylbenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
o-Xylene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
p-Isopropyltoluene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
sec-Butylbenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Styrene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
tert-Butylbenzene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Tetrachloroethene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	560	ug/Kg	05/16/13	R/J	SW8260	1
Toluene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Total Xylenes	ND	280	ug/Kg	05/16/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	560	ug/Kg	05/16/13	R/J	SW8260	
Trichloroethene	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Trichlorofluoromethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	280	ug/Kg	05/16/13	R/J	SW8260	
Vinyl chloride	ND	280	ug/Kg	05/16/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	05/16/13	R/J	70 - 130 %	
% Bromofluorobenzene	95		%	05/16/13	R/J	70 - 130 %	
% Dibromofluoromethane	92		%	05/16/13	R/J	70 - 130 %	

Project ID: 13-049-00
Client ID: SB-4 5-10

Phoenix I.D.: BD70283

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
% Toluene-d8	93		%	05/16/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	370	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	260	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluorene	650	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	260	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-049-00
Client ID: SB-4 5-10

Phoenix I.D.: BD70283

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Nitrobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodimethylamine	ND	260	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodiphenylamine	ND	260	ug/Kg	05/16/13	DD	SW8270
Phenanthrene	990	260	ug/Kg	05/16/13	DD	SW8270
Pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	104		%	05/16/13	DD	30 - 130 %
% Nitrobenzene-d5	72		%	05/16/13	DD	30 - 130 %
% Terphenyl-d14	60		%	05/16/13	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.

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Ravi Kumar Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	10:30
Location Code:	GC-ENV	Received by:	LB	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9897				

Laboratory Data

SDG ID: GBD70283
Phoenix ID: BD70284

Project ID: 13-049-00
Client ID: SB-5 5-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	90		%	05/15/13	JL	E160.3
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260

Project ID: 13-049-00
Client ID: SB-5 5-10

Phoenix I.D.: BD70284

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	28	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	56	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	28	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
sec-Butylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	95		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	98		%	05/15/13	R/J	70 - 130 %	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
% Toluene-d8	94		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	370	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	260	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	260	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Nitrobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodimethylamine	ND	260	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodiphenylamine	ND	260	ug/Kg	05/16/13	DD	SW8270
Phenanthrene	ND	260	ug/Kg	05/16/13	DD	SW8270
Pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	87		%	05/16/13	DD	30 - 130 %
% Nitrobenzene-d5	71		%	05/16/13	DD	30 - 130 %
% Terphenyl-d14	104		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Ravi Kumar Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	14:35
Location Code:	GC-ENV	Received by:	LB	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9897				

Laboratory Data

SDG ID: GBD70283
Phoenix ID: BD70285

Project ID: 13-049-00
Client ID: SB-6 5-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	90		%	05/15/13	JL	E160.3
Soil Extraction for SVOA	Completed			05/15/13	JJ/V	SW3545
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260 1
4-Chlorotoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260

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Client ID: SB-6 5-10

Phoenix I.D.: BD70285

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	28	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	120	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	28	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
sec-Butylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.6	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	90		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	101		%	05/15/13	R/J	70 - 130 %	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
% Toluene-d8	93		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1100	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1500	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	370	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	260	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	260	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	260	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	260	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	260	ug/Kg	05/16/13	DD	SW8270	

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Client ID: SB-6 5-10

Phoenix I.D.: BD70285

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Nitrobenzene	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodimethylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	260	ug/Kg	05/16/13	DD	SW8270	
Phenanthrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
Pyrene	ND	260	ug/Kg	05/16/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	96		%	05/16/13	DD	30 - 130 %	
% Nitrobenzene-d5	78		%	05/16/13	DD	30 - 130 %	
% Terphenyl-d14	>160		%	05/16/13	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.

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.

* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Ravi Kumar Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	11:00
Location Code:	GC-ENV	Received by:	LB	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9897				

Laboratory Data

SDG ID: GBD70283
Phoenix ID: BD70286

Project ID: 13-049-00
Client ID: SB-19 5-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	93		%	05/15/13	JL	E160.3
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260

Project ID: 13-049-00
Client ID: SB-19 5-10

Phoenix I.D.: BD70286

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	100	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
sec-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	92		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	105		%	05/15/13	R/J	70 - 130 %	

Project ID: 13-049-00
Client ID: SB-19 5-10

Phoenix I.D.: BD70286

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
% Toluene-d8	94		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	350	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-049-00
Client ID: SB-19 5-10

Phoenix I.D.: BD70286

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270
Phenanthrene	ND	250	ug/Kg	05/16/13	DD	SW8270
Pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	71		%	05/16/13	DD	30 - 130 %
% Nitrobenzene-d5	61		%	05/16/13	DD	30 - 130 %
% Terphenyl-d14	86		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Ravi Kumar Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	12:20
Location Code:	GC-ENV	Received by:	LB	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9897				

Laboratory Data

SDG ID: GBD70283
Phoenix ID: BD70287

Project ID: 13-049-00
Client ID: SB 20 5-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	92		%	05/15/13	JL	E160.3
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260

Project ID: 13-049-00
Client ID: SB 20 5-10

Phoenix I.D.: BD70287

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	140	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
sec-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	90		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	100		%	05/15/13	R/J	70 - 130 %	

Project ID: 13-049-00
Client ID: SB 20 5-10

Phoenix I.D.: BD70287

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
% Toluene-d8	92		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	360	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-049-00
Client ID: SB 20 5-10

Phoenix I.D.: BD70287

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270
Phenanthrene	ND	250	ug/Kg	05/16/13	DD	SW8270
Pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	86		%	05/16/13	DD	30 - 130 %
% Nitrobenzene-d5	75		%	05/16/13	DD	30 - 130 %
% Terphenyl-d14	100		%	05/16/13	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.

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
May 20, 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

May 20, 2013

FOR: Attn: Mr. Ravi Kumar Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/13	10:00
Location Code:	GC-ENV	Received by:	LB	05/09/13	16:05
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	9897				

Laboratory Data

SDG ID: GBD70283
Phoenix ID: BD70288

Project ID: 13-049-00
Client ID: SB-21 5-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	93		%	05/15/13	JL	E160.3
Soil Extraction for SVOA	Completed			05/15/13	BJ/V	SW3545
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	05/15/13	R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260 1
4-Chlorotoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260

Project ID: 13-049-00
Client ID: SB-21 5-10

Phoenix I.D.: BD70288

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
4-Methyl-2-pentanone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Acetone	ND	140	ug/Kg	05/15/13	R/J	SW8260	
Acrylonitrile	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Benzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromodichloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromoform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Bromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon Disulfide	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Carbon tetrachloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chlorobenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloroform	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Chloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	1
Dibromochloromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dibromomethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Dichlorodifluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Ethylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Hexachlorobutadiene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Isopropylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
m&p-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Methyl Ethyl Ketone	ND	27	ug/Kg	05/15/13	R/J	SW8260	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Methylene chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Naphthalene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
n-Propylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
o-Xylene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
p-Isopropyltoluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
sec-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Styrene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
tert-Butylbenzene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrachloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Tetrahydrofuran (THF)	ND	11	ug/Kg	05/15/13	R/J	SW8260	1
Toluene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Total Xylenes	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	05/15/13	R/J	SW8260	
Trichloroethene	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorofluoromethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Trichlorotrifluoroethane	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
Vinyl chloride	ND	5.4	ug/Kg	05/15/13	R/J	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	05/15/13	R/J	70 - 130 %	
% Bromofluorobenzene	95		%	05/15/13	R/J	70 - 130 %	
% Dibromofluoromethane	103		%	05/15/13	R/J	70 - 130 %	

Project ID: 13-049-00
Client ID: SB-21 5-10

Phoenix I.D.: BD70288

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
% Toluene-d8	96		%	05/15/13	R/J	70 - 130 %	

Semivolatiles

1,2-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,2-Diphenylhydrazine	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,3-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
1,4-Dichlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,4-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2,6-Dinitrotoluene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Chloronaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Methylnaphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	
2-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
3-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chloroaniline	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
4-Nitroaniline	ND	1000	ug/Kg	05/16/13	DD	SW8270	
Acenaphthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Acenaphthylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benz(a)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzidine	ND	1400	ug/Kg	05/16/13	DD	SW8270	
Benzo(a)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(b)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(ghi)perylene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzo(k)fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzoic acid	ND	350	ug/Kg	05/16/13	DD	SW8270	LO
Benzyl alcohol	ND	250	ug/Kg	05/16/13	DD	SW8270	
Benzyl butyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	05/16/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Chrysene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenz(a,h)anthracene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dibenzofuran	ND	250	ug/Kg	05/16/13	DD	SW8270	
Diethyl phthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Dimethylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-butylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Di-n-octylphthalate	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluoranthene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Fluorene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorobutadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Hexachloroethane	ND	250	ug/Kg	05/16/13	DD	SW8270	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270	
Isophorone	ND	250	ug/Kg	05/16/13	DD	SW8270	
Naphthalene	ND	250	ug/Kg	05/16/13	DD	SW8270	

Project ID: 13-049-00
Client ID: SB-21 5-10

Phoenix I.D.: BD70288

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Nitrobenzene	ND	250	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodimethylamine	ND	250	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	05/16/13	DD	SW8270
N-Nitrosodiphenylamine	ND	250	ug/Kg	05/16/13	DD	SW8270
Phenanthrene	ND	250	ug/Kg	05/16/13	DD	SW8270
Pyrene	ND	250	ug/Kg	05/16/13	DD	SW8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	83		%	05/16/13	DD	30 - 130 %
% Nitrobenzene-d5	72		%	05/16/13	DD	30 - 130 %
% Terphenyl-d14	102		%	05/16/13	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.

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
May 20, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 20, 2013

QA/QC Data

SDG I.D.: GBD70283

QA/QC Batch 230792, QC Sample No: BD70277 (BD70284, BD70285, BD70286, BD70287, BD70288)

Volatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	105	103	1.9	95	127	28.8	70 - 130	30	
1,1,1-Trichloroethane	ND	87	85	2.3	85	109	24.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	94	91	3.2	121	>150	NC	70 - 130	30	m
1,1,2-Trichloroethane	ND	93	96	3.2	83	96	14.5	70 - 130	30	
1,1-Dichloroethane	ND	88	87	1.1	87	110	23.4	70 - 130	30	
1,1-Dichloroethene	ND	84	80	4.9	75	98	26.6	70 - 130	30	
1,1-Dichloropropene	ND	96	94	2.1	84	110	26.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	110	118	7.0	<40	41	NC	70 - 130	30	m
1,2,3-Trichloropropane	ND	95	90	5.4	124	>150	NC	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	114	121	6.0	<40	51	NC	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	96	94	2.1	62	106	52.4	70 - 130	30	m,r
1,2-Dibromo-3-chloropropane	ND	116	119	2.6	131	>150	NC	70 - 130	30	m
1,2-Dibromoethane	ND	94	97	3.1	79	90	13.0	70 - 130	30	
1,2-Dichlorobenzene	ND	98	96	2.1	66	95	36.0	70 - 130	30	m,r
1,2-Dichloroethane	ND	93	96	3.2	88	104	16.7	70 - 130	30	
1,2-Dichloropropane	ND	92	92	0.0	88	108	20.4	70 - 130	30	
1,3,5-Trimethylbenzene	ND	94	90	4.3	71	117	48.9	70 - 130	30	r
1,3-Dichlorobenzene	ND	104	100	3.9	69	106	42.3	70 - 130	30	m,r
1,3-Dichloropropane	ND	94	93	1.1	94	117	21.8	70 - 130	30	
1,4-Dichlorobenzene	ND	100	98	2.0	65	100	42.4	70 - 130	30	m,r
2,2-Dichloropropane	ND	91	91	0.0	85	110	25.6	70 - 130	30	
2-Chlorotoluene	ND	105	100	4.9	91	143	44.4	70 - 130	30	m,r
2-Hexanone	ND	83	83	0.0	72	82	13.0	70 - 130	30	
2-Isopropyltoluene	ND	98	95	3.1	66	111	50.8	70 - 130	30	m,r
4-Chlorotoluene	ND	102	99	3.0	84	132	44.4	70 - 130	30	m,r
4-Methyl-2-pentanone	ND	94	95	1.1	74	80	7.8	70 - 130	30	
Acetone	ND	73	70	4.2	NC	NC	NC	70 - 130	30	
Acrylonitrile	ND	93	96	3.2	84	87	3.5	70 - 130	30	
Benzene	ND	86	85	1.2	79	100	23.5	70 - 130	30	
Bromobenzene	ND	106	102	3.8	104	147	34.3	70 - 130	30	m,r
Bromochloromethane	ND	99	99	0.0	93	111	17.6	70 - 130	30	
Bromodichloromethane	ND	90	89	1.1	79	98	21.5	70 - 130	30	
Bromoform	ND	109	108	0.9	89	108	19.3	70 - 130	30	
Bromomethane	ND	89	82	8.2	67	103	42.4	70 - 130	30	m,r
Carbon Disulfide	ND	78	73	6.6	57	79	32.4	70 - 130	30	m,r
Carbon tetrachloride	ND	101	101	0.0	91	117	25.0	70 - 130	30	
Chlorobenzene	ND	99	97	2.0	79	107	30.1	70 - 130	30	
Chloroethane	ND	84	79	6.1	79	106	29.2	70 - 130	30	
Chloroform	ND	82	83	1.2	80	100	22.2	70 - 130	30	
Chloromethane	ND	88	90	2.2	87	113	26.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	89	90	1.1	80	98	20.2	70 - 130	30	

QA/QC Data

SDG I.D.: GBD70283

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	93	95	2.1	76	93	20.1	70 - 130	30	
Dibromochloromethane	ND	105	105	0.0	99	124	22.4	70 - 130	30	
Dibromomethane	ND	93	97	4.2	80	92	14.0	70 - 130	30	
Dichlorodifluoromethane	ND	89	89	0.0	95	124	26.5	70 - 130	30	
Ethylbenzene	ND	92	90	2.2	73	105	36.0	70 - 130	30	r
Hexachlorobutadiene	ND	105	111	5.6	<40	63	NC	70 - 130	30	m
Isopropylbenzene	ND	102	96	6.1	98	>150	NC	70 - 130	30	m
m&p-Xylene	ND	94	93	1.1	68	98	36.1	70 - 130	30	m,r
Methyl ethyl ketone	ND	68	72	5.7	75	77	2.6	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	80	80	0.0	92	103	11.3	70 - 130	30	
Methylene chloride	ND	75	74	1.3	86	130	40.7	70 - 130	30	r
Naphthalene	ND	109	125	13.7	49	94	62.9	70 - 130	30	m,r
n-Butylbenzene	ND	93	94	1.1	43	87	67.7	70 - 130	30	m,r
n-Propylbenzene	ND	105	99	5.9	86	143	49.8	70 - 130	30	m,r
o-Xylene	ND	94	93	1.1	71	99	32.9	70 - 130	30	r
p-Isopropyltoluene	ND	106	102	3.8	64	117	58.6	70 - 130	30	m,r
sec-Butylbenzene	ND	90	87	3.4	62	108	54.1	70 - 130	30	m,r
Styrene	ND	89	89	0.0	65	90	32.3	70 - 130	30	m,r
tert-Butylbenzene	ND	101	95	6.1	78	130	50.0	70 - 130	30	r
Tetrachloroethene	ND	106	104	1.9	88	127	36.3	70 - 130	30	r
Tetrahydrofuran (THF)	ND	86	89	3.4	95	100	5.1	70 - 130	30	
Toluene	ND	88	88	0.0	73	94	25.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	81	80	1.2	67	87	26.0	70 - 130	30	m
trans-1,3-Dichloropropene	ND	92	94	2.2	70	81	14.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	100	99	1.0	95	114	18.2	70 - 130	30	
Trichloroethene	ND	102	99	3.0	86	112	26.3	70 - 130	30	
Trichlorofluoromethane	ND	90	86	4.5	84	112	28.6	70 - 130	30	
Trichlorotrifluoroethane	ND	94	94	0.0	90	121	29.4	70 - 130	30	
Vinyl chloride	ND	93	94	1.1	83	107	25.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	101	101	0.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	95	97	99	2.0	84	83	1.2	70 - 130	30	
% Dibromofluoromethane	98	99	99	0.0	107	106	0.9	70 - 130	30	
% Toluene-d8	95	94	94	0.0	89	88	1.1	70 - 130	30	

Comment:

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

QA/QC Batch 230562, QC Sample No: BD70288 (BD70283, BD70284, BD70286, BD70287, BD70288)

Semivolatiles - Soil

1,2-Dichlorobenzene	ND	70	74	5.6	75	76	1.3	30 - 130	30	
1,2-Diphenylhydrazine	ND	89	94	5.5	97	102	5.0	30 - 130	30	
1,3-Dichlorobenzene	ND	69	73	5.6	74	76	2.7	30 - 130	30	
1,4-Dichlorobenzene	ND	71	76	6.8	75	77	2.6	30 - 130	30	
2,4-Dinitrotoluene	ND	85	94	10.1	94	100	6.2	30 - 130	30	
2,6-Dinitrotoluene	ND	76	80	5.1	82	88	7.1	30 - 130	30	
2-Chloronaphthalene	ND	84	89	5.8	89	97	8.6	30 - 130	30	
2-Methylnaphthalene	ND	77	86	11.0	90	88	2.2	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3-Nitroaniline	ND	132	>150	NC	140	147	4.9	30 - 130	30	l,m
4-Bromophenyl phenyl ether	ND	88	92	4.4	98	102	4.0	30 - 130	30	
4-Chloroaniline	ND	77	85	9.9	74	77	4.0	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	89	100	11.6	97	101	4.0	30 - 130	30	
4-Nitroaniline	ND	81	86	6.0	90	100	10.5	30 - 130	30	

QA/QC Data

SDG I.D.: GBD70283

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acenaphthene	ND	84	90	6.9	91	95	4.3	30 - 130	30	
Acenaphthylene	ND	78	83	6.2	85	88	3.5	30 - 130	30	
Anthracene	ND	79	87	9.6	91	96	5.3	30 - 130	30	
Benz(a)anthracene	ND	103	115	11.0	121	121	0.0	30 - 130	30	
Benzidine	ND	83	89	7.0	20	25	22.2	30 - 130	30	m
Benzo(a)pyrene	ND	74	85	13.8	89	91	2.2	30 - 130	30	
Benzo(b)fluoranthene	ND	87	94	7.7	105	105	0.0	30 - 130	30	
Benzo(ghi)perylene	ND	65	79	19.4	76	81	6.4	30 - 130	30	
Benzo(k)fluoranthene	ND	98	109	10.6	115	120	4.3	30 - 130	30	
Benzyl Alcohol	ND	45	57	23.5	39	41	5.0	30 - 130	30	
Benzyl butyl phthalate	ND	79	92	15.2	84	89	5.8	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	72	76	5.4	83	83	0.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	62	65	4.7	67	67	0.0	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	72	75	4.1	77	78	1.3	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	72	83	14.2	96	97	1.0	30 - 130	30	
Chrysene	ND	114	129	12.3	144	146	1.4	30 - 130	30	m
Dibenz(a,h)anthracene	ND	93	124	28.6	108	114	5.4	30 - 130	30	
Dibenzofuran	ND	86	95	9.9	95	102	7.1	30 - 130	30	
Diethyl phthalate	ND	87	92	5.6	93	97	4.2	30 - 130	30	
Dimethylphthalate	ND	83	87	4.7	92	96	4.3	30 - 130	30	
Di-n-butylphthalate	ND	84	95	12.3	88	97	9.7	30 - 130	30	
Di-n-octylphthalate	ND	113	124	9.3	144	144	0.0	30 - 130	30	m
Fluoranthene	ND	85	94	10.1	93	96	3.2	30 - 130	30	
Fluorene	ND	91	101	10.4	100	101	1.0	30 - 130	30	
Hexachlorobenzene	ND	93	96	3.2	105	115	9.1	30 - 130	30	
Hexachlorobutadiene	ND	84	87	3.5	91	94	3.2	30 - 130	30	
Hexachlorocyclopentadiene	ND	63	75	17.4	73	73	0.0	30 - 130	30	
Hexachloroethane	ND	79	84	6.1	87	88	1.1	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	83	106	24.3	97	102	5.0	30 - 130	30	
Isophorone	ND	78	82	5.0	86	89	3.4	30 - 130	30	
Naphthalene	ND	78	83	6.2	89	87	2.3	30 - 130	30	
Nitrobenzene	ND	76	83	8.8	84	83	1.2	30 - 130	30	
N-Nitrosodimethylamine	ND	58	66	12.9	60	54	10.5	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	79	89	11.9	85	85	0.0	30 - 130	30	
N-Nitrosodiphenylamine	ND	90	101	11.5	101	105	3.9	30 - 130	30	
Phenanthrene	ND	84	93	10.2	98	103	5.0	30 - 130	30	
Pyrene	ND	84	90	6.9	91	97	6.4	30 - 130	30	
% 2-Fluorobiphenyl	77	86	86	0.0	87	96	9.8	30 - 130	30	
% Nitrobenzene-d5	81	76	80	5.1	82	84	2.4	30 - 130	30	
% Terphenyl-d14	88	97	97	0.0	88	102	14.7	30 - 130	30	

Comment:

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

QA/QC Batch 230788, QC Sample No: BD78879 (BD70283 (50X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	101	103	2.0	98	99	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	85	89	4.6	87	87	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	81	82	1.2	74	60	20.9	70 - 130	30	m
1,1,2-Trichloroethane	ND	93	89	4.4	91	82	10.4	70 - 130	30	
1,1-Dichloroethane	ND	87	90	3.4	89	86	3.4	70 - 130	30	
1,1-Dichloroethene	ND	78	84	7.4	76	78	2.6	70 - 130	30	
1,1-Dichloropropene	ND	91	96	5.3	97	97	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBD70283

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichlorobenzene	ND	94	86	8.9	91	101	10.4	70 - 130	30	
1,2,3-Trichloropropane	ND	89	86	3.4	91	81	11.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	88	80	9.5	96	109	12.7	70 - 130	30	
1,2,4-Trimethylbenzene	ND	85	86	1.2	88	95	7.7	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	112	106	5.5	98	94	4.2	70 - 130	30	
1,2-Dibromoethane	ND	94	88	6.6	93	86	7.8	70 - 130	30	
1,2-Dichlorobenzene	ND	88	86	2.3	90	93	3.3	70 - 130	30	
1,2-Dichloroethane	ND	92	91	1.1	94	87	7.7	70 - 130	30	
1,2-Dichloropropane	ND	91	93	2.2	92	89	3.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	83	87	4.7	88	93	5.5	70 - 130	30	
1,3-Dichlorobenzene	ND	87	87	0.0	93	98	5.2	70 - 130	30	
1,3-Dichloropropane	ND	91	90	1.1	93	89	4.4	70 - 130	30	
1,4-Dichlorobenzene	ND	85	83	2.4	90	95	5.4	70 - 130	30	
2,2-Dichloropropane	ND	85	87	2.3	94	92	2.2	70 - 130	30	
2-Chlorotoluene	ND	93	97	4.2	96	101	5.1	70 - 130	30	
2-Hexanone	ND	76	66	14.1	89	81	9.4	70 - 130	30	l
2-Isopropyltoluene	ND	90	92	2.2	89	97	8.6	70 - 130	30	
4-Chlorotoluene	ND	88	89	1.1	96	101	5.1	70 - 130	30	
4-Methyl-2-pentanone	ND	91	83	9.2	91	81	11.6	70 - 130	30	
Acetone	ND	60	55	8.7	94	67	33.5	70 - 130	30	l,m,r
Acrylonitrile	ND	95	85	11.1	98	86	13.0	70 - 130	30	
Benzene	ND	83	86	3.6	91	89	2.2	70 - 130	30	
Bromobenzene	ND	96	101	5.1	98	98	0.0	70 - 130	30	
Bromochloromethane	ND	99	97	2.0	97	92	5.3	70 - 130	30	
Bromodichloromethane	ND	87	88	1.1	85	80	6.1	70 - 130	30	
Bromoform	ND	106	102	3.8	92	89	3.3	70 - 130	30	
Bromomethane	ND	85	92	7.9	50	48	4.1	70 - 130	30	m
Carbon Disulfide	ND	71	77	8.1	75	77	2.6	70 - 130	30	
Carbon tetrachloride	ND	99	103	4.0	94	95	1.1	70 - 130	30	
Chlorobenzene	ND	92	94	2.2	95	97	2.1	70 - 130	30	
Chloroethane	ND	78	85	8.6	<40	<40	NC	70 - 130	30	m
Chloroform	ND	82	84	2.4	83	80	3.7	70 - 130	30	
Chloromethane	ND	91	90	1.1	101	91	10.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	89	90	1.1	90	85	5.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	89	87	2.3	92	86	6.7	70 - 130	30	
Dibromochloromethane	ND	102	101	1.0	97	94	3.1	70 - 130	30	
Dibromomethane	ND	94	90	4.3	90	84	6.9	70 - 130	30	
Dichlorodifluoromethane	ND	90	94	4.3	95	97	2.1	70 - 130	30	
Ethylbenzene	ND	85	88	3.5	91	95	4.3	70 - 130	30	
Hexachlorobutadiene	ND	91	82	10.4	75	107	35.2	70 - 130	30	r
Isopropylbenzene	ND	92	98	6.3	95	100	5.1	70 - 130	30	
m&p-Xylene	ND	86	87	1.2	92	95	3.2	70 - 130	30	
Methyl ethyl ketone	ND	64	55	15.1	86	76	12.3	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	79	77	2.6	85	79	7.3	70 - 130	30	
Methylene chloride	ND	72	74	2.7	70	69	1.4	70 - 130	30	m
Naphthalene	ND	111	97	13.5	103	101	2.0	70 - 130	30	
n-Butylbenzene	ND	77	75	2.6	78	93	17.5	70 - 130	30	
n-Propylbenzene	ND	92	97	5.3	97	104	7.0	70 - 130	30	
o-Xylene	ND	88	89	1.1	94	97	3.1	70 - 130	30	
p-Isopropyltoluene	ND	91	93	2.2	93	105	12.1	70 - 130	30	
sec-Butylbenzene	ND	82	85	3.6	84	93	10.2	70 - 130	30	
Styrene	ND	83	82	1.2	89	91	2.2	70 - 130	30	
tert-Butylbenzene	ND	93	98	5.2	92	98	6.3	70 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Tetrachloroethene	ND	95	101	6.1	103	108	4.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	87	78	10.9	88	77	13.3	70 - 130	30	
Toluene	ND	85	87	2.3	91	90	1.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	78	80	2.5	80	80	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	88	84	4.7	90	84	6.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	87	83	4.7	92	83	10.3	70 - 130	30	
Trichloroethene	ND	102	105	2.9	115	120	4.3	70 - 130	30	
Trichlorofluoromethane	ND	85	91	6.8	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	89	97	8.6	95	97	2.1	70 - 130	30	
Vinyl chloride	ND	93	96	3.2	89	86	3.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	101	101	0.0	101	97	4.0	70 - 130	30	
% Bromofluorobenzene	91	97	94	3.1	96	97	1.0	70 - 130	30	
% Dibromofluoromethane	99	100	99	1.0	95	93	2.1	70 - 130	30	
% Toluene-d8	92	94	94	0.0	93	93	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 230563, QC Sample No: BD79161 (BD70285)

Semivolatiles - Soil

1,2-Dichlorobenzene	ND	63	64	1.6	77	76	1.3	30 - 130	30	
1,2-Diphenylhydrazine	ND	79	75	5.2	87	87	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	64	64	0.0	76	76	0.0	30 - 130	30	
1,4-Dichlorobenzene	ND	64	65	1.6	78	77	1.3	30 - 130	30	
2,4-Dinitrotoluene	ND	87	89	2.3	78	78	0.0	30 - 130	30	
2,6-Dinitrotoluene	ND	82	87	5.9	83	82	1.2	30 - 130	30	
2-Chloronaphthalene	ND	71	74	4.1	85	85	0.0	30 - 130	30	
2-Methylnaphthalene	ND	71	72	1.4	111	112	0.9	30 - 130	30	
2-Nitroaniline	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3,3'-Dichlorobenzidine	ND	>150	>150	NC	>150	>150	NC	30 - 130	30	l,m
3-Nitroaniline	ND	>150	>150	NC	56	55	1.8	30 - 130	30	l
4-Bromophenyl phenyl ether	ND	76	82	7.6	88	89	1.1	30 - 130	30	
4-Chloroaniline	ND	71	70	1.4	91	80	12.9	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	72	76	5.4	86	87	1.2	30 - 130	30	
4-Nitroaniline	ND	84	90	6.9	91	88	3.4	30 - 130	30	
Acenaphthene	ND	73	73	0.0	88	88	0.0	30 - 130	30	
Acenaphthylene	ND	75	76	1.3	87	87	0.0	30 - 130	30	
Anthracene	ND	72	77	6.7	87	89	2.3	30 - 130	30	
Benz(a)anthracene	ND	89	90	1.1	86	87	1.2	30 - 130	30	
Benzidine	ND	61	63	3.2	29	26	10.9	30 - 130	30	m
Benzo(a)pyrene	ND	84	83	1.2	80	83	3.7	30 - 130	30	
Benzo(b)fluoranthene	ND	93	89	4.4	113	118	4.3	30 - 130	30	
Benzo(ghi)perylene	ND	96	102	6.1	40	32	22.2	30 - 130	30	
Benzo(k)fluoranthene	ND	87	87	0.0	109	120	9.6	30 - 130	30	
Benzyl Alcohol	ND	62	68	9.2	<5	<5	NC	30 - 130	30	m
Benzyl butyl phthalate	ND	97	92	5.3	105	113	7.3	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	69	72	4.3	83	84	1.2	30 - 130	30	
Bis(2-chloroethyl)ether	ND	58	61	5.0	92	89	3.3	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	61	62	1.6	89	88	1.1	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	82	80	2.5	104	112	7.4	30 - 130	30	
Chrysene	ND	91	92	1.1	87	90	3.4	30 - 130	30	
Dibenz(a,h)anthracene	ND	87	89	2.3	50	43	15.1	30 - 130	30	
Dibenzofuran	ND	75	76	1.3	88	87	1.1	30 - 130	30	
Diethyl phthalate	ND	83	89	7.0	89	89	0.0	30 - 130	30	

QA/QC Data

SDG I.D.: GBD70283

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Dimethylphthalate	ND	81	84	3.6	89	87	2.3	30 - 130	30	
Di-n-butylphthalate	ND	77	81	5.1	90	93	3.3	30 - 130	30	
Di-n-octylphthalate	ND	101	100	1.0	100	104	3.9	30 - 130	30	
Fluoranthene	ND	79	85	7.3	88	86	2.3	30 - 130	30	
Fluorene	ND	71	74	4.1	89	89	0.0	30 - 130	30	
Hexachlorobenzene	ND	69	74	7.0	84	87	3.5	30 - 130	30	
Hexachlorobutadiene	ND	70	73	4.2	78	77	1.3	30 - 130	30	
Hexachlorocyclopentadiene	ND	63	67	6.2	25	16	43.9	30 - 130	30	m,r
Hexachloroethane	ND	62	62	0.0	72	71	1.4	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	91	94	3.2	47	39	18.6	30 - 130	30	
Isophorone	ND	68	71	4.3	82	82	0.0	30 - 130	30	
Naphthalene	ND	68	70	2.9	83	83	0.0	30 - 130	30	
Nitrobenzene	ND	64	66	3.1	82	82	0.0	30 - 130	30	
N-Nitrosodimethylamine	ND	68	69	1.5	90	88	2.2	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	65	68	4.5	81	80	1.2	30 - 130	30	
N-Nitrosodiphenylamine	ND	93	96	3.2	96	97	1.0	30 - 130	30	
Phenanthrene	ND	75	80	6.5	90	92	2.2	30 - 130	30	
Pyrene	ND	81	85	4.8	85	84	1.2	30 - 130	30	
% 2-Fluorobiphenyl	67	69	73	5.6	85	84	1.2	30 - 130	30	
% Nitrobenzene-d5	64	64	65	1.6	82	82	0.0	30 - 130	30	
% Terphenyl-d14	83	83	87	4.7	88	86	2.3	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%)

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
May 20, 2013

Monday, May 20, 2013

Requested Criteria: None

State: NY

Sample Criteria Exceedences Report

GBD70283 - GC-ENV

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

May 20, 2013

SDG I.D.: GBD70283

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

4°w/c + IP

Temp Pg of

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

Data Delivery:
☑ Fax #: 631-206-3729
☑ Email: ravi kolaventi@gcenvironmental.com

Customer: GC Environmental Inc
Address: 22 Oak Street, Bay Shore, NY 11706

Project: 13-070-00
Report to: Ravi Kumar Kolaventi
Invoice to: Debra Brown

Project P.O.: 9888
Phone #: 631-206-3700
Fax #: 631-206-3729

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 05/07/13

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 - 8260	B/N only - 8270	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] H2O	GL Soil container (8) oz	GL Soil container (2) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 1250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 1250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
70283	SB-4 (5-10)	S	05/02	10:00am	X	X		1	1							
70284	SB-5 (5-10)	S	05/02	10:30am	X	X		1	1							
70285	SB-6 (5-10)	S	05/02	02:35pm	X	X		1	1							
70286	SB-19 (5-10)	S	05/03	11:00am	X	X		1	1							
70287	SB-20 (5-10)	S	05/03	12:20pm	X	X		1	1							
70288	SB-21 (5-7)	S	05/06	10:00am	X	X		1	1							

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	5-9-13	12:30
[signature]	Paradise	5-9-13	1605

Comments, Special Requirements or Regulations:

* HOLD THE SAMPLES.
* DONT PERFORM THE ANALYSIS UNTIL YOU HEAR FROM ME

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

PHOENIX
Environmental Laboratories, Inc.

Friday, May 31, 2013

Attn: Ravi Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Project ID: 13-070-00
Sample ID#s: BD69296 - BD69298

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

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

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

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

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

NY # 11301

SDG Comments

May 31, 2013

SDG I.D.: GBD69296

8270 Semivolatile Organics:
Full Scan Report:
Bis(2-chloroethyl)ether, the Nitroanilines and Hexachlorobutadiene were evaluated from the SIM analysis in order to achieve the requested criteria.
SIM Analysis:
The lowest possible reporting limit under SIM conditions is 0.02 ug/L. The NY TOGS GA criteria for some PAHs is 0.002 ug/L. This level can not be achieved.

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

May 31, 2013

FOR: Attn: Ravi Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/07/13	11:35
Location Code:	GC-ENV	Received by:	LB	05/08/13	15:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD69296
Phoenix ID: BD69296

Project ID: 13-070-00
Client ID: SB-1 GW1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Aluminum	80.2	0.10	mg/L	05/10/13	LK	SW6010
Arsenic	0.037	0.004	mg/L	05/09/13	LK	SW6010
Barium	0.826	0.002	mg/L	05/09/13	LK	SW6010
Beryllium	0.006	0.001	mg/L	05/09/13	LK	SW6010
Calcium	108	0.010	mg/L	05/09/13	LK	SW6010
Cadmium	0.006	0.001	mg/L	05/09/13	LK	SW6010
Cobalt	0.179	0.002	mg/L	05/09/13	LK	SW6010
Chromium	0.915	0.001	mg/L	05/09/13	LK	SW6010
Copper	0.777	0.005	mg/L	05/09/13	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Aluminum (Dissolved)	0.10	0.01	mg/L	05/09/13	LK	SW6010
Arsenic (Dissolved)	0.004	0.004	mg/L	05/09/13	LK	SW6010
Barium (Dissolved)	0.047	0.002	mg/L	05/09/13	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Calcium (Dissolved)	79.8	0.01	mg/L	05/09/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Cobalt (Dissolved)	0.006	0.001	mg/L	05/09/13	LK	SW6010
Chromium (Dissolved)	0.002	0.001	mg/L	05/09/13	LK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	05/09/13	LK	SW6010
Iron (Dissolved)	0.255	0.011	mg/L	05/09/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	05/10/13	RS	SW7470
Potassium (Dissolved)	4.4	0.1	mg/L	05/09/13	LK	SW6010
Magnesium (Dissolved)	42.2	0.01	mg/L	05/09/13	LK	SW6010
Manganese (Dissolved)	0.841	0.001	mg/L	05/09/13	LK	SW6010
Sodium (Dissolved)	28.3	0.11	mg/L	05/09/13	LK	SW6010
Nickel (Dissolved)	0.072	0.001	mg/L	05/09/13	LK	SW6010
Lead (Dissolved)	< 0.002	0.002	mg/L	05/09/13	LK	SW6010

Project ID: 13-070-00
Client ID: SB-1 GW1

Phoenix I.D.: BD69296

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.003	0.003	mg/L	05/09/13	LK	SW6010
Selenium (Dissolved)	< 0.010	0.010	mg/L	05/09/13	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	05/10/13	RS	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	05/09/13	LK	SW6010
Zinc (Dissolved)	1.06	0.002	mg/L	05/09/13	LK	SW6010
Iron	289	0.10	mg/L	05/10/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	05/10/13	RS	SW7470
Potassium	25.6	0.1	mg/L	05/09/13	LK	SW6010
Magnesium	104	0.10	mg/L	05/10/13	LK	SW6010
Manganese	15.4	0.010	mg/L	05/10/13	LK	SW6010
Sodium	34.3	0.1	mg/L	05/09/13	LK	SW6010
Nickel	1.38	0.001	mg/L	05/09/13	LK	SW6010
Lead	0.152	0.002	mg/L	05/09/13	LK	SW6010
Antimony	< 0.003	0.003	mg/L	05/09/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	05/09/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	05/10/13	RS	SM3113B/SW70
Vanadium	0.212	0.002	mg/L	05/09/13	LK	SW6010
Zinc	15.8	0.020	mg/L	05/10/13	LK	SW6010
Filtration	Completed			05/08/13	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			05/09/13	X/X	SW7470
Mercury Digestion	Completed			05/09/13	X/X	SW7470
PCB Extraction	Completed			05/08/13	BT	SW3510C
Extraction for Pest (2 Liter)	Completed			05/08/13	BT	SW3510
Semi-Volatile Extraction	Completed			05/08/13	I/X	SW3520
Dissolved Metals Preparation	Completed			05/08/13	AG	SW846-3005
Total Metals Digestion	Completed			05/08/13	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1221	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1232	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1242	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1248	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1254	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1260	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1262	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1268	ND	0.10	ug/L	05/09/13	AW	8082
QA/QC Surrogates						
% DCBP	88		%	05/09/13	AW	30 - 150 %
% TCMX	60		%	05/09/13	AW	30 - 150 %

Pesticides

4,4' -DDD	ND	0.050	ug/L	05/09/13	MH	SW8081	
4,4' -DDE	ND	0.050	ug/L	05/09/13	MH	SW8081	
4,4' -DDT	ND	0.050	ug/L	05/09/13	MH	SW8081	
a-BHC	ND	0.025	ug/L	05/09/13	MH	SW8081	
Alachlor	ND	0.075	ug/L	05/09/13	MH	SW8081	1
Aldrin	ND	0.002	ug/L	05/09/13	MH	SW8081	
b-BHC	ND	0.005	ug/L	05/09/13	MH	SW8081	
Chlordane	ND	0.30	ug/L	05/09/13	MH	SW8081	

Project ID: 13-070-00
Client ID: SB-1 GW1

Phoenix I.D.: BD69296

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
d-BHC	ND	0.025	ug/L	05/09/13	MH	SW8081
Dieldrin	ND	0.002	ug/L	05/09/13	MH	SW8081
Endosulfan I	ND	0.050	ug/L	05/09/13	MH	SW8081
Endosulfan II	ND	0.050	ug/L	05/09/13	MH	SW8081
Endosulfan Sulfate	ND	0.050	ug/L	05/09/13	MH	SW8081
Endrin	ND	0.050	ug/L	05/09/13	MH	SW8081
Endrin Aldehyde	ND	0.050	ug/L	05/09/13	MH	SW8081
Endrin ketone	ND	0.050	ug/L	05/09/13	MH	SW8081
g-BHC (Lindane)	ND	0.025	ug/L	05/09/13	MH	SW8081
Heptachlor	ND	0.025	ug/L	05/09/13	MH	SW8081
Heptachlor epoxide	ND	0.025	ug/L	05/09/13	MH	SW8081
Methoxychlor	ND	0.10	ug/L	05/09/13	MH	SW8081
Toxaphene	ND	1.0	ug/L	05/09/13	MH	SW8081
QA/QC Surrogates						
%DCBP (Surrogate Rec)	100		%	05/09/13	MH	30 - 150 %
%TCMX (Surrogate Rec)	88		%	05/09/13	MH	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	05/09/13	H/T	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	05/09/13	H/T	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
2-Hexanone	ND	5.0	ug/L	05/09/13	H/T	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Acetone	ND	25	ug/L	05/09/13	H/T	SW8260	
Acrylonitrile	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Benzene	ND	0.70	ug/L	05/09/13	H/T	SW8260	
Bromobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Bromochloromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Bromodichloromethane	ND	0.50	ug/L	05/09/13	H/T	SW8260	

Project ID: 13-070-00
Client ID: SB-1 GW1

Phoenix I.D.: BD69296

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bromoform	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Bromomethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Carbon Disulfide	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chloroform	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chloromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
cis-1,3-Dichloropropene	ND	0.50	ug/L	05/09/13	H/T	SW8260	1
Dibromochloromethane	ND	0.50	ug/L	05/09/13	H/T	SW8260	
Dibromomethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Ethylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	05/09/13	H/T	SW8260	
Isopropylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
m&p-Xylene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Methylene chloride	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Naphthalene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
n-Butylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
n-Propylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
o-Xylene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Styrene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Tetrachloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	05/09/13	H/T	SW8260	1
Toluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Total Xylenes	ND	1.0	ug/L	05/09/13	H/T	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
trans-1,3-Dichloropropene	ND	0.50	ug/L	05/09/13	H/T	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Trichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Vinyl chloride	ND	1.0	ug/L	05/09/13	H/T	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/09/13	H/T	70 - 130 %	
% Bromofluorobenzene	99		%	05/09/13	H/T	70 - 130 %	
% Dibromofluoromethane	99		%	05/09/13	H/T	70 - 130 %	
% Toluene-d8	98		%	05/09/13	H/T	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	05/10/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270

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Client ID: SB-1 GW1

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,4-Dichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2,4-Dinitrotoluene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2,6-Dinitrotoluene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2-Chloronaphthalene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2-Methylnaphthalene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2-Nitroaniline	ND	50	ug/L	05/10/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	20	ug/L	05/10/13	DD	SW8270	
3-Nitroaniline	ND	50	ug/L	05/10/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	05/10/13	DD	SW8270	
4-Chloroaniline	ND	20	ug/L	05/10/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	05/10/13	DD	SW8270	
4-Nitroaniline	ND	50	ug/L	05/10/13	DD	SW8270	
Acenaphthene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Anthracene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Benzidine	ND	20	ug/L	05/10/13	DD	SW8270	
Benzo(ghi)perylene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Benzoic acid	ND	50	ug/L	05/10/13	DD	SW8270	
Benzyl Alcohol	ND	20	ug/L	05/10/13	DD	SW8270	
Benzyl butyl phthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	05/10/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	5.0	ug/L	05/10/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	05/10/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Dibenzofuran	ND	5.0	ug/L	05/10/13	DD	SW8270	
Diethyl phthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Dimethylphthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Di-n-butylphthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Di-n-octylphthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Fluoranthene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Fluorene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Hexachlorobutadiene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Hexachloroethane	ND	5.0	ug/L	05/10/13	DD	SW8270	
Isophorone	ND	5.0	ug/L	05/10/13	DD	SW8270	
Naphthalene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Nitrobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270	
N-Nitrosodimethylamine	ND	5.0	ug/L	05/10/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	05/10/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	5.0	ug/L	05/10/13	DD	SW8270	
Pyrene	ND	5.0	ug/L	05/10/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	93		%	05/10/13	DD	30 - 130 %	
% Nitrobenzene-d5	122		%	05/10/13	DD	30 - 130 %	
% Terphenyl-d14	79		%	05/10/13	DD	30 - 130 %	

Semivolatiles

Acenaphthylene	0.06	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.05	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Benzo(a)pyrene	ND	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.02	0.020	ug/L	05/09/13	DD	SW8270 (SIM)

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Benzo(k)fluoranthene	ND	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Chrysene	0.03	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	05/09/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	0.08	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Phenanthrene	0.1	0.050	ug/L	05/09/13	DD	SW8270 (SIM)
QA/QC Surrogates						
% 2-Fluorobiphenyl	93		%	05/09/13	DD	30 - 130 %
% Nitrobenzene-d5	122		%	05/09/13	DD	30 - 130 %
% Terphenyl-d14	79		%	05/09/13	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.

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
May 31, 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

May 31, 2013

FOR: Attn: Ravi Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/07/13	9:00
Location Code:	GC-ENV	Received by:	LB	05/08/13	15:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD69296
Phoenix ID: BD69297

Project ID: 13-070-00
Client ID: SB-8 GW2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Aluminum	32.9	0.010	mg/L	05/09/13	LK	SW6010
Arsenic	0.100	0.004	mg/L	05/09/13	LK	SW6010
Barium	0.440	0.002	mg/L	05/09/13	LK	SW6010
Beryllium	0.003	0.001	mg/L	05/09/13	LK	SW6010
Calcium	56.3	0.010	mg/L	05/09/13	LK	SW6010
Cadmium	0.003	0.001	mg/L	05/09/13	LK	SW6010
Cobalt	0.114	0.002	mg/L	05/09/13	LK	SW6010
Chromium	0.860	0.001	mg/L	05/09/13	LK	SW6010
Copper	3.26	0.50	mg/L	05/10/13	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Aluminum (Dissolved)	0.06	0.01	mg/L	05/10/13	EK	SW6010
Arsenic (Dissolved)	0.011	0.004	mg/L	05/09/13	LK	SW6010
Barium (Dissolved)	0.029	0.002	mg/L	05/09/13	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Calcium (Dissolved)	43.7	0.01	mg/L	05/09/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Cobalt (Dissolved)	0.014	0.001	mg/L	05/09/13	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Copper (Dissolved)	0.023	0.005	mg/L	05/09/13	LK	SW6010
Iron (Dissolved)	0.032	0.011	mg/L	05/09/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	05/10/13	RS	SW7470
Potassium (Dissolved)	4.8	0.1	mg/L	05/09/13	LK	SW6010
Magnesium (Dissolved)	29.4	0.01	mg/L	05/09/13	LK	SW6010
Manganese (Dissolved)	1.83	0.001	mg/L	05/09/13	LK	SW6010
Sodium (Dissolved)	35.7	0.11	mg/L	05/09/13	LK	SW6010
Nickel (Dissolved)	0.149	0.001	mg/L	05/09/13	LK	SW6010
Lead (Dissolved)	< 0.002	0.002	mg/L	05/09/13	LK	SW6010

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Client ID: SB-8 GW2

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.003	0.003	mg/L	05/09/13	LK	SW6010
Selenium (Dissolved)	< 0.010	0.010	mg/L	05/09/13	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	05/10/13	RS	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	05/09/13	LK	SW6010
Zinc (Dissolved)	4.99	0.021	mg/L	05/10/13	EK	SW6010
Iron	143	0.010	mg/L	05/09/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	05/10/13	RS	SW7470
Potassium	12.6	0.1	mg/L	05/09/13	LK	SW6010
Magnesium	56.0	0.01	mg/L	05/09/13	LK	SW6010
Manganese	8.26	0.10	mg/L	05/10/13	LK	SW6010
Sodium	42.9	0.1	mg/L	05/09/13	LK	SW6010
Nickel	1.42	0.001	mg/L	05/09/13	LK	SW6010
Lead	0.103	0.002	mg/L	05/09/13	LK	SW6010
Antimony	< 0.003	0.003	mg/L	05/09/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	05/09/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	05/10/13	RS	SM3113B/SW70
Vanadium	0.091	0.002	mg/L	05/09/13	LK	SW6010
Zinc	127	0.20	mg/L	05/10/13	LK	SW6010
Filtration	Completed			05/08/13	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			05/09/13	X/X	SW7470
Mercury Digestion	Completed			05/09/13	X/X	SW7470
PCB Extraction	Completed			05/08/13	BT	SW3510C
Extraction for Pest (2 Liter)	Completed			05/08/13	BT	SW3510
Semi-Volatile Extraction	Completed			05/08/13	I/X	SW3520
Dissolved Metals Preparation	Completed			05/08/13	AG	SW846-3005
Total Metals Digestion	Completed			05/08/13	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1221	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1232	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1242	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1248	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1254	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1260	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1262	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1268	ND	0.10	ug/L	05/09/13	AW	8082
QA/QC Surrogates						
% DCBP	105		%	05/09/13	AW	30 - 150 %
% TCMX	63		%	05/09/13	AW	30 - 150 %

Pesticides

4,4' -DDD	ND	0.050	ug/L	05/09/13	MH	SW8081	
4,4' -DDE	ND	0.050	ug/L	05/09/13	MH	SW8081	
4,4' -DDT	ND	0.050	ug/L	05/09/13	MH	SW8081	
a-BHC	ND	0.025	ug/L	05/09/13	MH	SW8081	
Alachlor	ND	0.075	ug/L	05/09/13	MH	SW8081	1
Aldrin	ND	0.002	ug/L	05/09/13	MH	SW8081	
b-BHC	ND	0.005	ug/L	05/09/13	MH	SW8081	
Chlordane	ND	0.30	ug/L	05/09/13	MH	SW8081	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
d-BHC	ND	0.025	ug/L	05/09/13	MH	SW8081
Dieldrin	ND	0.002	ug/L	05/09/13	MH	SW8081
Endosulfan I	ND	0.050	ug/L	05/09/13	MH	SW8081
Endosulfan II	ND	0.050	ug/L	05/09/13	MH	SW8081
Endosulfan Sulfate	ND	0.050	ug/L	05/09/13	MH	SW8081
Endrin	ND	0.050	ug/L	05/09/13	MH	SW8081
Endrin Aldehyde	ND	0.050	ug/L	05/09/13	MH	SW8081
Endrin ketone	ND	0.050	ug/L	05/09/13	MH	SW8081
g-BHC (Lindane)	ND	0.025	ug/L	05/09/13	MH	SW8081
Heptachlor	ND	0.025	ug/L	05/09/13	MH	SW8081
Heptachlor epoxide	ND	0.025	ug/L	05/09/13	MH	SW8081
Methoxychlor	ND	0.10	ug/L	05/09/13	MH	SW8081
Toxaphene	ND	1.0	ug/L	05/09/13	MH	SW8081
QA/QC Surrogates						
%DCBP (Surrogate Rec)	92		%	05/09/13	MH	30 - 150 %
%TCMX (Surrogate Rec)	80		%	05/09/13	MH	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	05/09/13	H/T	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	05/09/13	H/T	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
2-Hexanone	ND	5.0	ug/L	05/09/13	H/T	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Acetone	ND	25	ug/L	05/09/13	H/T	SW8260	
Acrylonitrile	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Benzene	ND	0.70	ug/L	05/09/13	H/T	SW8260	
Bromobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Bromochloromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Bromodichloromethane	ND	0.50	ug/L	05/09/13	H/T	SW8260	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bromoform	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Bromomethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Carbon Disulfide	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chloroform	1.4	1.0	ug/L	05/09/13	H/T	SW8260	
Chloromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
cis-1,3-Dichloropropene	ND	0.50	ug/L	05/09/13	H/T	SW8260	1
Dibromochloromethane	ND	0.50	ug/L	05/09/13	H/T	SW8260	
Dibromomethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Ethylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	05/09/13	H/T	SW8260	
Isopropylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
m&p-Xylene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Methylene chloride	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Naphthalene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
n-Butylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
n-Propylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
o-Xylene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Styrene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Tetrachloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	05/09/13	H/T	SW8260	1
Toluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Total Xylenes	ND	1.0	ug/L	05/09/13	H/T	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
trans-1,3-Dichloropropene	ND	0.50	ug/L	05/09/13	H/T	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Trichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Vinyl chloride	ND	1.0	ug/L	05/09/13	H/T	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	05/09/13	H/T	70 - 130 %	
% Bromofluorobenzene	99		%	05/09/13	H/T	70 - 130 %	
% Dibromofluoromethane	98		%	05/09/13	H/T	70 - 130 %	
% Toluene-d8	101		%	05/09/13	H/T	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	05/10/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270

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Client ID: SB-8 GW2

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,4-Dichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2,4-Dinitrotoluene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2,6-Dinitrotoluene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2-Chloronaphthalene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2-Methylnaphthalene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2-Nitroaniline	ND	50	ug/L	05/10/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	20	ug/L	05/10/13	DD	SW8270	
3-Nitroaniline	ND	50	ug/L	05/10/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	05/10/13	DD	SW8270	
4-Chloroaniline	ND	20	ug/L	05/10/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	05/10/13	DD	SW8270	
4-Nitroaniline	ND	50	ug/L	05/10/13	DD	SW8270	
Acenaphthene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Anthracene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Benzidine	ND	20	ug/L	05/10/13	DD	SW8270	
Benzo(ghi)perylene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Benzoic acid	ND	50	ug/L	05/10/13	DD	SW8270	
Benzyl Alcohol	ND	20	ug/L	05/10/13	DD	SW8270	
Benzyl butyl phthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	05/10/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	5.0	ug/L	05/10/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	05/10/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Dibenzofuran	ND	5.0	ug/L	05/10/13	DD	SW8270	
Diethyl phthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Dimethylphthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Di-n-butylphthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Di-n-octylphthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Fluoranthene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Fluorene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Hexachlorobutadiene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Hexachloroethane	ND	5.0	ug/L	05/10/13	DD	SW8270	
Isophorone	ND	5.0	ug/L	05/10/13	DD	SW8270	
Naphthalene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Nitrobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270	
N-Nitrosodimethylamine	ND	5.0	ug/L	05/10/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	05/10/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	5.0	ug/L	05/10/13	DD	SW8270	
Pyrene	ND	5.0	ug/L	05/10/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	92		%	05/10/13	DD	30 - 130 %	
% Nitrobenzene-d5	117		%	05/10/13	DD	30 - 130 %	
% Terphenyl-d14	61		%	05/10/13	DD	30 - 130 %	

Semivolatiles

Acenaphthylene	0.09	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.07	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Benzo(a)pyrene	0.03	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.05	0.020	ug/L	05/09/13	DD	SW8270 (SIM)

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzo(k)fluoranthene	0.02	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Chrysene	0.05	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	05/09/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Phenanthrene	0.11	0.050	ug/L	05/09/13	DD	SW8270 (SIM)
QA/QC Surrogates						
% 2-Fluorobiphenyl	92		%	05/09/13	DD	30 - 130 %
% Nitrobenzene-d5	117		%	05/09/13	DD	30 - 130 %
% Terphenyl-d14	61		%	05/09/13	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.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 31, 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

May 31, 2013

FOR: Attn: Ravi Kolaventi
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/07/13	14:20
Location Code:	GC-ENV	Received by:	LB	05/08/13	15:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD69296
Phoenix ID: BD69298

Project ID: 13-070-00
Client ID: SB-17 GW3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Aluminum	34.8	0.010	mg/L	05/09/13	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	05/09/13	LK	SW6010
Barium	0.332	0.002	mg/L	05/09/13	LK	SW6010
Beryllium	0.002	0.001	mg/L	05/09/13	LK	SW6010
Calcium	61.5	0.010	mg/L	05/09/13	LK	SW6010
Cadmium	0.002	0.001	mg/L	05/09/13	LK	SW6010
Cobalt	0.066	0.002	mg/L	05/09/13	LK	SW6010
Chromium	0.277	0.001	mg/L	05/09/13	LK	SW6010
Copper	0.164	0.005	mg/L	05/09/13	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Aluminum (Dissolved)	0.16	0.01	mg/L	05/09/13	LK	SW6010
Arsenic (Dissolved)	0.004	0.004	mg/L	05/09/13	LK	SW6010
Barium (Dissolved)	0.047	0.002	mg/L	05/09/13	LK	SW6010
Beryllium (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Calcium (Dissolved)	55.5	0.01	mg/L	05/09/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Cobalt (Dissolved)	0.005	0.001	mg/L	05/09/13	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	05/09/13	LK	SW6010
Copper (Dissolved)	< 0.005	0.005	mg/L	05/09/13	LK	SW6010
Iron (Dissolved)	0.172	0.011	mg/L	05/09/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	05/10/13	RS	SW7470
Potassium (Dissolved)	3.6	0.1	mg/L	05/09/13	LK	SW6010
Magnesium (Dissolved)	32.7	0.01	mg/L	05/09/13	LK	SW6010
Manganese (Dissolved)	0.883	0.001	mg/L	05/09/13	LK	SW6010
Sodium (Dissolved)	33.3	0.11	mg/L	05/09/13	LK	SW6010
Nickel (Dissolved)	0.062	0.001	mg/L	05/09/13	LK	SW6010
Lead (Dissolved)	< 0.002	0.002	mg/L	05/09/13	LK	SW6010

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Client ID: SB-17 GW3

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Antimony (Dissolved)	< 0.003	0.003	mg/L	05/09/13	LK	SW6010
Selenium (Dissolved)	< 0.010	0.010	mg/L	05/09/13	LK	SW6010
Thallium (Dissolved)	< 0.002	0.002	mg/L	05/10/13	RS	SW7010
Vanadium (Dissolved)	< 0.002	0.002	mg/L	05/09/13	LK	SW6010
Zinc (Dissolved)	0.050	0.002	mg/L	05/09/13	LK	SW6010
Iron	82.1	0.010	mg/L	05/09/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	05/10/13	RS	SW7470
Potassium	13.4	0.1	mg/L	05/09/13	LK	SW6010
Magnesium	63.1	0.01	mg/L	05/09/13	LK	SW6010
Manganese	4.96	0.010	mg/L	05/10/13	LK	SW6010
Sodium	33.0	0.1	mg/L	05/09/13	LK	SW6010
Nickel	0.563	0.001	mg/L	05/09/13	LK	SW6010
Lead	0.078	0.002	mg/L	05/09/13	LK	SW6010
Antimony	< 0.003	0.003	mg/L	05/09/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	05/09/13	LK	SW6010
Thallium	< 0.002	0.002	mg/L	05/10/13	RS	SM3113B/SW70
Vanadium	0.098	0.002	mg/L	05/09/13	LK	SW6010
Zinc	0.599	0.002	mg/L	05/09/13	LK	SW6010
Filtration	Completed			05/08/13	AG	0.45um Filter
Dissolved Mercury Digestion	Completed			05/09/13	X/X	SW7470
Mercury Digestion	Completed			05/09/13	X/X	SW7470
PCB Extraction	Completed			05/08/13	BT	SW3510C
Extraction for Pest (2 Liter)	Completed			05/08/13	BT	SW3510
Semi-Volatile Extraction	Completed			05/08/13	I/X	SW3520
Dissolved Metals Preparation	Completed			05/08/13	AG	SW846-3005
Total Metals Digestion	Completed			05/08/13	AG	

Polychlorinated Biphenyls

PCB-1016	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1221	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1232	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1242	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1248	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1254	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1260	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1262	ND	0.10	ug/L	05/09/13	AW	8082
PCB-1268	ND	0.10	ug/L	05/09/13	AW	8082
QA/QC Surrogates						
% DCBP	107		%	05/09/13	AW	30 - 150 %
% TCMX	70		%	05/09/13	AW	30 - 150 %

Pesticides

4,4' -DDD	ND	0.050	ug/L	05/09/13	MH	SW8081	
4,4' -DDE	ND	0.050	ug/L	05/09/13	MH	SW8081	
4,4' -DDT	ND	0.050	ug/L	05/09/13	MH	SW8081	
a-BHC	ND	0.025	ug/L	05/09/13	MH	SW8081	
Alachlor	ND	0.075	ug/L	05/09/13	MH	SW8081	1
Aldrin	ND	0.002	ug/L	05/09/13	MH	SW8081	
b-BHC	ND	0.005	ug/L	05/09/13	MH	SW8081	
Chlordane	ND	0.30	ug/L	05/09/13	MH	SW8081	

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
d-BHC	ND	0.025	ug/L	05/09/13	MH	SW8081
Dieldrin	ND	0.002	ug/L	05/09/13	MH	SW8081
Endosulfan I	ND	0.050	ug/L	05/09/13	MH	SW8081
Endosulfan II	ND	0.050	ug/L	05/09/13	MH	SW8081
Endosulfan Sulfate	ND	0.050	ug/L	05/09/13	MH	SW8081
Endrin	ND	0.050	ug/L	05/09/13	MH	SW8081
Endrin Aldehyde	ND	0.050	ug/L	05/09/13	MH	SW8081
Endrin ketone	ND	0.050	ug/L	05/09/13	MH	SW8081
g-BHC (Lindane)	ND	0.025	ug/L	05/09/13	MH	SW8081
Heptachlor	ND	0.025	ug/L	05/09/13	MH	SW8081
Heptachlor epoxide	ND	0.025	ug/L	05/09/13	MH	SW8081
Methoxychlor	ND	0.10	ug/L	05/09/13	MH	SW8081
Toxaphene	ND	1.0	ug/L	05/09/13	MH	SW8081
QA/QC Surrogates						
%DCBP (Surrogate Rec)	84		%	05/09/13	MH	30 - 150 %
%TCMX (Surrogate Rec)	68		%	05/09/13	MH	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1,1-Trichloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	05/09/13	H/T	SW8260	
1,1,2-Trichloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1-Dichloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1-Dichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,1-Dichloropropene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,3-Trichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dibromoethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,2-Dichloroethane	ND	0.60	ug/L	05/09/13	H/T	SW8260	
1,2-Dichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,3-Dichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,3-Dichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
1,4-Dichlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
2,2-Dichloropropane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
2-Chlorotoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
2-Hexanone	ND	5.0	ug/L	05/09/13	H/T	SW8260	
2-Isopropyltoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	1
4-Chlorotoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
4-Methyl-2-pentanone	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Acetone	ND	25	ug/L	05/09/13	H/T	SW8260	
Acrylonitrile	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Benzene	ND	0.70	ug/L	05/09/13	H/T	SW8260	
Bromobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Bromochloromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Bromodichloromethane	ND	0.50	ug/L	05/09/13	H/T	SW8260	

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Bromoform	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Bromomethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Carbon Disulfide	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chlorobenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chloroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Chloroform	1.7	1.0	ug/L	05/09/13	H/T	SW8260	
Chloromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
cis-1,3-Dichloropropene	ND	0.50	ug/L	05/09/13	H/T	SW8260	1
Dibromochloromethane	ND	0.50	ug/L	05/09/13	H/T	SW8260	
Dibromomethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Ethylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	05/09/13	H/T	SW8260	
Isopropylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
m&p-Xylene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Methylene chloride	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Naphthalene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
n-Butylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
n-Propylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
o-Xylene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Styrene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Tetrachloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	05/09/13	H/T	SW8260	1
Toluene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Total Xylenes	ND	1.0	ug/L	05/09/13	H/T	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
trans-1,3-Dichloropropene	ND	0.50	ug/L	05/09/13	H/T	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	05/09/13	H/T	SW8260	
Trichloroethene	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	05/09/13	H/T	SW8260	
Vinyl chloride	ND	1.0	ug/L	05/09/13	H/T	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	05/09/13	H/T	70 - 130 %	
% Bromofluorobenzene	97		%	05/09/13	H/T	70 - 130 %	
% Dibromofluoromethane	99		%	05/09/13	H/T	70 - 130 %	
% Toluene-d8	100		%	05/09/13	H/T	70 - 130 %	

Semivolatiles

1,2,4-Trichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270
1,2-Dichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270
1,2-Diphenylhydrazine	ND	5.0	ug/L	05/10/13	DD	SW8270
1,3-Dichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270

Project ID: 13-070-00
Client ID: SB-17 GW3

Phoenix I.D.: BD69298

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
1,4-Dichlorobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2,4-Dinitrotoluene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2,6-Dinitrotoluene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2-Chloronaphthalene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2-Methylnaphthalene	ND	5.0	ug/L	05/10/13	DD	SW8270	
2-Nitroaniline	ND	50	ug/L	05/10/13	DD	SW8270	
3,3'-Dichlorobenzidine	ND	20	ug/L	05/10/13	DD	SW8270	
3-Nitroaniline	ND	50	ug/L	05/10/13	DD	SW8270	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	05/10/13	DD	SW8270	
4-Chloroaniline	ND	20	ug/L	05/10/13	DD	SW8270	
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	05/10/13	DD	SW8270	
4-Nitroaniline	ND	50	ug/L	05/10/13	DD	SW8270	
Acenaphthene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Anthracene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Benzidine	ND	20	ug/L	05/10/13	DD	SW8270	
Benzo(ghi)perylene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Benzoic acid	ND	50	ug/L	05/10/13	DD	SW8270	
Benzyl Alcohol	ND	20	ug/L	05/10/13	DD	SW8270	
Benzyl butyl phthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	05/10/13	DD	SW8270	
Bis(2-chloroethyl)ether	ND	5.0	ug/L	05/10/13	DD	SW8270	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	05/10/13	DD	SW8270	1
Bis(2-ethylhexyl)phthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Dibenzofuran	ND	5.0	ug/L	05/10/13	DD	SW8270	
Diethyl phthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Dimethylphthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Di-n-butylphthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Di-n-octylphthalate	ND	5.0	ug/L	05/10/13	DD	SW8270	
Fluoranthene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Fluorene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Hexachlorobutadiene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Hexachlorocyclopentadiene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Hexachloroethane	ND	5.0	ug/L	05/10/13	DD	SW8270	
Isophorone	ND	5.0	ug/L	05/10/13	DD	SW8270	
Naphthalene	ND	5.0	ug/L	05/10/13	DD	SW8270	
Nitrobenzene	ND	5.0	ug/L	05/10/13	DD	SW8270	
N-Nitrosodimethylamine	ND	5.0	ug/L	05/10/13	DD	SW8270	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	05/10/13	DD	SW8270	
N-Nitrosodiphenylamine	ND	5.0	ug/L	05/10/13	DD	SW8270	
Pyrene	ND	5.0	ug/L	05/10/13	DD	SW8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	85		%	05/10/13	DD	30 - 130 %	
% Nitrobenzene-d5	112		%	05/10/13	DD	30 - 130 %	
% Terphenyl-d14	74		%	05/10/13	DD	30 - 130 %	

Semivolatiles

Acenaphthylene	0.07	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Benz(a)anthracene	0.05	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Benzo(a)pyrene	0.02	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Benzo(b)fluoranthene	0.04	0.020	ug/L	05/09/13	DD	SW8270 (SIM)

Project ID: 13-070-00
Client ID: SB-17 GW3

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Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzo(k)fluoranthene	ND	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Chrysene	0.03	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	05/09/13	DD	SW8270 (SIM)
Hexachlorobenzene	ND	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	05/09/13	DD	SW8270 (SIM)
Phenanthrene	0.27	0.050	ug/L	05/09/13	DD	SW8270 (SIM)
QA/QC Surrogates						
% 2-Fluorobiphenyl	85		%	05/09/13	DD	30 - 130 %
% Nitrobenzene-d5	112		%	05/09/13	DD	30 - 130 %
% Terphenyl-d14	74		%	05/09/13	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.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 31, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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QA/QC Report

May 31, 2013

QA/QC Data

SDG I.D.: GBD69296

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 229654, QC Sample No: BD67623 (BD69296, BD69297, BD69298)													
Mercury - Water	BRL	<0.0002	<0.0002	NC	101	96.3	4.8	97.1	94.5	2.7	70 - 130	20	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 229041, QC Sample No: BD67623 (BD69296, BD69297, BD69298)													
Thallium - Water	BRL	<0.002	<0.002	NC	97.4	98.4	1.0	96.6	97.4	0.8			
QA/QC Batch 229037, QC Sample No: BD67754 (BD69296, BD69297, BD69298)													
Thallium (Dissolved)		<0.002	<0.005	NC	104	101	2.9	102	102	0.0	75 - 125	20	
QA/QC Batch 229470, QC Sample No: BD68925 (BD69296, BD69297, BD69298)													
ICP Metals - Aqueous													
Aluminum	BRL	4.89	5.30	8.00	92.4	91.7	0.8	>130	>130	NC	75 - 125	20	m
Antimony	BRL	<0.005	<0.005	NC	98.1	98.2	0.1	96.2	96.7	0.5	75 - 125	20	
Arsenic	BRL	0.009	0.007	NC	94.7	95.6	0.9	95.5	95.4	0.1	75 - 125	20	
Barium	BRL	0.416	0.436	4.70	102	103	1.0	102	101	1.0	75 - 125	20	
Beryllium	BRL	<0.001	<0.001	NC	98.3	99.4	1.1	95.1	95.3	0.2	75 - 125	20	
Cadmium	BRL	<0.001	<0.001	NC	98.3	99.1	0.8	91.3	89.9	1.5	75 - 125	20	
Calcium	BRL	196	205	4.50	101	100	1.0	NC	NC	NC	75 - 125	20	
Chromium	BRL	0.012	0.012	0	98.9	99.5	0.6	94.6	93.7	1.0	75 - 125	20	
Cobalt	BRL	0.004	0.003	NC	101	102	1.0	93.7	92.4	1.4	75 - 125	20	
Copper	BRL	0.008	0.007	NC	98.4	99.1	0.7	96.9	97.3	0.4	75 - 125	20	
Iron	BRL	6.46	7.00	8.00	99.0	99.0	0.0	NC	NC	NC	75 - 125	20	
Lead	BRL	0.003	0.003	NC	96.4	97.0	0.6	90.3	89.7	0.7	75 - 125	20	
Magnesium	BRL	44.3	45.6	2.90	99.0	99.6	0.6	NC	NC	NC	75 - 125	20	
Manganese	BRL	0.205	0.215	4.80	98.5	99.6	1.1	98.7	95.7	3.1	75 - 125	20	
Nickel	BRL	0.012	0.012	0	93.7	94.4	0.7	86.4	85.5	1.0	75 - 125	20	
Potassium	BRL	2.8	3.0	6.90	82.0	82.3	0.4	115	113	1.8	75 - 125	20	
Selenium	BRL	<0.010	<0.010	NC	88.8	90.5	1.9	89.9	89.9	0.0	75 - 125	20	
Silver	BRL	<0.001	<0.001	NC	99.8	99.7	0.1	99.4	99.1	0.3	75 - 125	20	
Sodium	BRL	218	228	4.50	86.7	86.3	0.5	NC	NC	NC	75 - 125	20	
Vanadium	BRL	0.011	0.012	8.70	98.0	98.7	0.7	95.5	95.3	0.2	75 - 125	20	
Zinc	BRL	0.027	0.028	3.60	96.4	97.2	0.8	95.0	95.6	0.6	75 - 125	20	
QA/QC Batch 229622, QC Sample No: BD69171 (BD69296, BD69297, BD69298)													
ICP Metals - Dissolved													
Aluminum	BRL	<0.01	<0.01	NC	92.7	93.9	1.3	96.8	96.0	0.8	75 - 125	20	
Antimony	BRL	<0.005	<0.005	NC	96.3	98.2	2.0	101	101	0.0	75 - 125	20	
Arsenic	BRL	<0.004	<0.004	NC	90.8	93.6	3.0	98.0	98.0	0.0	75 - 125	20	
Barium	BRL	0.293	0.292	0.30	96.9	99.0	2.1	100	102	2.0	75 - 125	20	
Beryllium	BRL	<0.001	<0.001	NC	91.8	95.1	3.5	98.8	98.4	0.4	75 - 125	20	
Cadmium	BRL	<0.001	<0.001	NC	94.1	97.3	3.3	94.9	95.3	0.4	75 - 125	20	
Calcium	BRL	151	151	0	96.5	94.6	2.0	NC	NC	NC	75 - 125	20	
Chromium	BRL	<0.001	<0.001	NC	93.5	96.4	3.1	97.2	97.1	0.1	75 - 125	20	
Cobalt	BRL	<0.001	<0.001	NC	96.9	99.6	2.7	99.0	98.4	0.6	75 - 125	20	

QA/QC Data

SDG I.D.: GBD69296

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Copper	BRL	<0.005	<0.005	NC	95.0	96.0	1.0	100	101	1.0	75 - 125	20
Iron	BRL	0.065	0.064	1.60	94.5	97.3	2.9	97.0	96.8	0.2	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	93.5	96.1	2.7	95.8	95.1	0.7	75 - 125	20
Magnesium	BRL	4.08	4.09	0.20	93.9	97.2	3.5	89.7	89.0	0.8	75 - 125	20
Manganese	BRL	0.364	0.365	0.30	94.4	97.3	3.0	95.4	96.0	0.6	75 - 125	20
Nickel	BRL	0.002	0.002	NC	92.5	95.2	2.9	93.6	93.2	0.4	75 - 125	20
Potassium	BRL	73.2	71.0	3.10	97.6	95.6	2.1	NC	NC	NC	75 - 125	20
Selenium	BRL	<0.011	<0.011	NC	86.8	89.7	3.3	93.4	93.1	0.3	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	93.6	95.9	2.4	83.6	83.4	0.2	75 - 125	20
Sodium	BRL	132	132	0	100	96.7	3.4	NC	NC	NC	75 - 125	20
Vanadium	BRL	<0.002	<0.002	NC	92.1	94.7	2.8	97.9	98.3	0.4	75 - 125	20
Zinc	BRL	0.003	0.003	NC	93.0	95.7	2.9	98.3	97.7	0.6	75 - 125	20

m = This parameter is outside laboratory ms/msd specified recovery limits.

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QA/QC Report

May 31, 2013

QA/QC Data

SDG I.D.: GBD69296

QA/QC Batch 229419, QC Sample No: BD68372 (BD69296, BD69297, BD69298)

Semivolatiles - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trichlorobenzene	ND	67	65	3.0				30 - 130	20	
1,2-Dichlorobenzene	ND	66	64	3.1				30 - 130	20	
1,2-Diphenylhydrazine	ND	66	65	1.5				30 - 130	20	
1,3-Dichlorobenzene	ND	65	64	1.6				30 - 130	20	
1,4-Dichlorobenzene	ND	65	63	3.1				30 - 130	20	
2,4-Dinitrotoluene	ND	73	72	1.4				30 - 130	20	
2,6-Dinitrotoluene	ND	75	73	2.7				30 - 130	20	
2-Chloronaphthalene	ND	72	70	2.8				30 - 130	20	
2-Methylnaphthalene	ND	69	68	1.5				30 - 130	20	
2-Nitroaniline	ND	63	69	9.1				30 - 130	20	
3,3'-Dichlorobenzidine	ND	29	34	15.9				30 - 130	20	I
3-Nitroaniline	ND	72	70	2.8				30 - 130	20	
4-Bromophenyl phenyl ether	ND	77	75	2.6				30 - 130	20	
4-Chloroaniline	ND	21	24	13.3				30 - 130	20	I
4-Chlorophenyl phenyl ether	ND	71	70	1.4				30 - 130	20	
4-Nitroaniline	ND	72	70	2.8				30 - 130	20	
Acenaphthene	ND	72	70	2.8				30 - 130	20	
Acenaphthylene	ND	55	54	1.8				30 - 130	20	
Anthracene	ND	72	71	1.4				30 - 130	20	
Benz(a)anthracene	ND	80	79	1.3				30 - 130	20	
Benzidine	ND	<5	<5	NC				10 - 130	20	I
Benzo(a)pyrene	ND	63	62	1.6				30 - 130	20	
Benzo(b)fluoranthene	ND	71	69	2.9				30 - 130	20	
Benzo(ghi)perylene	ND	81	71	13.2				30 - 130	20	
Benzo(k)fluoranthene	ND	73	72	1.4				30 - 130	20	
Benzoic acid	ND	N/A	N/A	NC				30 - 130	20	
Benzyl butyl phthalate	ND	75	70	6.9				30 - 130	20	
Bis(2-chloroethoxy)methane	ND	35	34	2.9				30 - 130	20	
Bis(2-chloroethyl)ether	ND	69	68	1.5				30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	70	68	2.9				30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	74	68	8.5				30 - 130	20	
Chrysene	ND	76	74	2.7				30 - 130	20	
Dibenz(a,h)anthracene	ND	80	73	9.2				30 - 130	20	
Dibenzofuran	ND	72	71	1.4				30 - 130	20	
Diethyl phthalate	ND	79	77	2.6				30 - 130	20	
Dimethylphthalate	ND	76	75	1.3				30 - 130	20	
Di-n-butylphthalate	ND	81	79	2.5				30 - 130	20	
Di-n-octylphthalate	ND	81	77	5.1				30 - 130	20	
Fluoranthene	ND	77	76	1.3				30 - 130	20	
Fluorene	ND	74	72	2.7				30 - 130	20	
Hexachlorobenzene	ND	80	77	3.8				30 - 130	20	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Hexachlorobutadiene	ND	66	64	3.1				30 - 130	20
Hexachlorocyclopentadiene	ND	34	35	2.9				30 - 130	20
Hexachloroethane	ND	68	67	1.5				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	80	73	9.2				30 - 130	20
Isophorone	ND	74	71	4.1				30 - 130	20
Naphthalene	ND	69	67	2.9				30 - 130	20
Nitrobenzene	ND	76	75	1.3				30 - 130	20
N-Nitrosodimethylamine	ND	68	69	1.5				30 - 130	20
N-Nitrosodi-n-propylamine	ND	72	70	2.8				30 - 130	20
N-Nitrosodiphenylamine	ND	70	70	0.0				30 - 130	20
Phenanthrene	ND	77	76	1.3				30 - 130	20
Pyrene	ND	77	77	0.0				30 - 130	20
% 2-Fluorobiphenyl	104	70	67	4.4				30 - 130	20
% Nitrobenzene-d5	134	72	71	1.4				30 - 130	20
% Terphenyl-d14	84	77	78	1.3				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 229599, QC Sample No: BD68925 (BD69296, BD69297, BD69298)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	75	82	8.9	91	90	1.1	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	67	77	13.9	77	78	1.3	40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	83	84	87	3.5	84	87	3.5	30 - 150	20
% TCMX (Surrogate Rec)	72	71	74	4.1	89	87	2.3	30 - 150	20

QA/QC Batch 229942, QC Sample No: BD69271 (BD69296, BD69297, BD69298)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	100	105	4.9	104	105	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	99	101	2.0	103	100	3.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	92	95	3.2	94	97	3.1	70 - 130	30
1,1,2-Trichloroethane	ND	96	102	6.1	99	98	1.0	70 - 130	30
1,1-Dichloroethane	ND	82	83	1.2	92	90	2.2	70 - 130	30
1,1-Dichloroethene	ND	81	83	2.4	94	89	5.5	70 - 130	30
1,1-Dichloropropene	ND	97	103	6.0	104	97	7.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	94	103	9.1	100	105	4.9	70 - 130	30
1,2,3-Trichloropropane	ND	98	99	1.0	97	98	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	96	104	8.0	103	105	1.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	103	108	4.7	104	104	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	99	108	8.7	93	101	8.2	70 - 130	30
1,2-Dibromoethane	ND	94	98	4.2	99	98	1.0	70 - 130	30
1,2-Dichlorobenzene	ND	94	100	6.2	99	100	1.0	70 - 130	30
1,2-Dichloroethane	ND	92	96	4.3	98	97	1.0	70 - 130	30
1,2-Dichloropropane	ND	97	100	3.0	101	99	2.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	101	106	4.8	107	106	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	97	103	6.0	101	102	1.0	70 - 130	30
1,3-Dichloropropane	ND	96	99	3.1	99	98	1.0	70 - 130	30

QA/QC Data

SDG I.D.: GBD69296

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,4-Dichlorobenzene	ND	97	102	5.0	100	101	1.0	70 - 130	30	
2,2-Dichloropropane	ND	90	91	1.1	77	74	4.0	70 - 130	30	
2-Chlorotoluene	ND	99	104	4.9	103	103	0.0	70 - 130	30	
2-Hexanone	ND	102	104	1.9	106	107	0.9	70 - 130	30	
2-Isopropyltoluene	ND	95	100	5.1	109	108	0.9	70 - 130	30	
4-Chlorotoluene	ND	97	101	4.0	104	102	1.9	70 - 130	30	
4-Methyl-2-pentanone	ND	98	101	3.0	102	101	1.0	70 - 130	30	
Acetone	ND	76	75	1.3	90	92	2.2	70 - 130	30	
Acrylonitrile	ND	70	75	6.9	83	84	1.2	70 - 130	30	
Benzene	ND	97	101	4.0	105	102	2.9	70 - 130	30	
Bromobenzene	ND	94	98	4.2	98	99	1.0	70 - 130	30	
Bromochloromethane	ND	94	98	4.2	97	99	2.0	70 - 130	30	
Bromodichloromethane	ND	100	104	3.9	103	101	2.0	70 - 130	30	
Bromoform	ND	96	103	7.0	103	106	2.9	70 - 130	30	
Bromomethane	ND	89	91	2.2	53	72	30.4	70 - 130	30	m
Carbon Disulfide	ND	79	81	2.5	92	89	3.3	70 - 130	30	
Carbon tetrachloride	ND	100	106	5.8	108	102	5.7	70 - 130	30	
Chlorobenzene	ND	95	100	5.1	105	101	3.9	70 - 130	30	
Chloroethane	ND	79	81	2.5	93	91	2.2	70 - 130	30	
Chloroform	ND	94	96	2.1	98	98	0.0	70 - 130	30	
Chloromethane	ND	90	91	1.1	94	95	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	86	87	1.2	92	91	1.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	101	106	4.8	99	97	2.0	70 - 130	30	
Dibromochloromethane	ND	103	106	2.9	105	106	0.9	70 - 130	30	
Dibromomethane	ND	93	97	4.2	97	97	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	80	83	3.7	87	82	5.9	70 - 130	30	
Ethylbenzene	ND	96	101	5.1	109	104	4.7	70 - 130	30	
Hexachlorobutadiene	ND	99	107	7.8	120	116	3.4	70 - 130	30	
Isopropylbenzene	ND	104	109	4.7	109	107	1.9	70 - 130	30	
m&p-Xylene	ND	97	103	6.0	109	104	4.7	70 - 130	30	
Methyl ethyl ketone	ND	91	91	0.0	102	103	1.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	72	76	5.4	89	91	2.2	70 - 130	30	
Methylene chloride	ND	84	83	1.2	113	113	0.0	70 - 130	30	
Naphthalene	ND	97	107	9.8	99	107	7.8	70 - 130	30	
n-Butylbenzene	ND	106	112	5.5	112	110	1.8	70 - 130	30	
n-Propylbenzene	ND	107	113	5.5	109	107	1.9	70 - 130	30	
o-Xylene	ND	95	99	4.1	107	103	3.8	70 - 130	30	
p-Isopropyltoluene	ND	106	112	5.5	111	109	1.8	70 - 130	30	
sec-Butylbenzene	ND	103	109	5.7	112	109	2.7	70 - 130	30	
Styrene	ND	89	95	6.5	106	103	2.9	70 - 130	30	
tert-Butylbenzene	ND	102	108	5.7	110	108	1.8	70 - 130	30	
Tetrachloroethene	ND	97	103	6.0	106	101	4.8	70 - 130	30	
Tetrahydrofuran (THF)	ND	92	92	0.0	95	100	5.1	70 - 130	30	
Toluene	ND	96	101	5.1	106	101	4.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	84	86	2.4	95	93	2.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	100	105	4.9	99	97	2.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	98	100	2.0	96	97	1.0	70 - 130	30	
Trichloroethene	ND	103	110	6.6	105	102	2.9	70 - 130	30	
Trichlorofluoromethane	ND	84	87	3.5	92	86	6.7	70 - 130	30	
Trichlorotrifluoroethane	ND	82	87	5.9	94	89	5.5	70 - 130	30	
Vinyl chloride	ND	92	92	0.0	93	92	1.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	99	99	0.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	99	101	101	0.0	100	100	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBD69296

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Dibromofluoromethane	97	101	100	1.0	95	98	3.1	70 - 130	30
% Toluene-d8	100	102	101	1.0	100	99	1.0	70 - 130	30

Comment:

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

QA/QC Batch 229601, QC Sample No: BD69296 (BD69296, BD69297, BD69298)

Pesticides - Ground Water

4,4' -DDD	ND	130	128	1.6				40 - 140	20
4,4' -DDE	ND	117	115	1.7				40 - 140	20
4,4' -DDT	ND	130	129	0.8				40 - 140	20
a-BHC	ND	124	122	1.6				40 - 140	20
a-Chlordane	ND	130	128	1.6				40 - 140	20
Alachlor	ND	N/A	N/A	NC				40 - 140	20
Aldrin	ND	119	118	0.8				40 - 140	20
b-BHC	ND	117	113	3.5				40 - 140	20
Chlordane	ND	N/A	N/A	NC				40 - 140	20
d-BHC	ND	115	113	1.8				40 - 140	20
Dieldrin	ND	124	123	0.8				40 - 140	20
Endosulfan I	ND	122	119	2.5				40 - 140	20
Endosulfan II	ND	118	116	1.7				40 - 140	20
Endosulfan sulfate	ND	117	115	1.7				40 - 140	20
Endrin	ND	128	118	8.1				40 - 140	20
Endrin aldehyde	ND	119	116	2.6				40 - 140	20
Endrin ketone	ND	>130	>130	NC				40 - 140	20
g-BHC	ND	124	123	0.8				40 - 140	20
g-Chlordane	ND	116	115	0.9				40 - 140	20
Heptachlor	ND	125	124	0.8				40 - 140	20
Heptachlor epoxide	ND	125	122	2.4				40 - 140	20
Methoxychlor	ND	123	122	0.8				40 - 140	20
Toxaphene	ND	N/A	N/A	NC				40 - 140	20
% DCBP	95	90	90	0.0				30 - 150	20
% TCMX	82	80	80	0.0				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.

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd 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
May 31, 2013

Sample Criteria Exceedences Report

GBD69296 - GC-ENV

Requested Criteria: None

State: NY

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

May 31, 2013

SDG I.D.: GBD69296

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

4°W/C + IP

NY/NJ CHAIN OF CUSTODY RECORD

Temp 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 #: 631-206-3729
☑ Email: ravi kolavcali @ gc environmental .com

Customer: G C Environmental Inc
Address: 22 Oak Street
Bay Shore, NY 11706

Project: 13-070-00
Report to: Ravi Kumar Kolavcali
Invoice to: Debra Brown

Project P.O: 9888
Phone #: 631-206-3700
Fax #: 631-206-3729

Sampler's Signature: [signature] Date: 05/07/13

Client Sample - Information - Identification

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 - 8260	B/N's only - 8270	PCB's - 8082	Pesticides - 8081	TAL Metals (filtered)	TAL Metals (Unfiltered)																		
69296	SB-1-GW1	GW	05/07	11:35am	X	X	X	X	X	X										3	4			2				
69297	SB-8-GW2	GW	05/06	09:00am ~~02:30pm~~	X	X	X	X	X	X										3	3			2				
69298	SB-17-GW3	GW	05/07	02:20pm	X	X	X	X	X	X										3	4			2				

Relinquished by:	Accepted by:	Date:	Time:
	[signature]	5-8-13	12:50
[signature]			
[signature]	[signature]	5-8-13	1549

Comments, Special Requirements or Regulations:
TAL Metals to be lab filtered.

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

PHOENIX
Environmental Laboratories, Inc.

Tuesday, May 14, 2013

Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Project ID: 13-070-00
Sample ID#s: BD69299 - BD69303

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

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

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

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
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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

May 14, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	RK	05/06/13	14:20
Location Code:	GC-ENV	Received by:	SW	05/08/13	15:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD69299
Phoenix ID: BD69299

Project ID: 13-070-00
Client ID: S14-SOIL VAPOR 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*	05/09/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trimethylbenzene	14.3	*0.204*	70.2	*1.00*	05/09/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/09/13	KCA	TO15	
1,3,5-Trimethylbenzene	3.94	*0.204*	19.4	*1.00*	05/09/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/09/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	05/09/13	KCA	TO15	1
4-Ethyltoluene	10.2	*0.204*	50.1	*1.00*	05/09/13	KCA	TO15	1
4-Isopropyltoluene	0.64	*0.182*	3.51	*1.00*	05/09/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	ND	*0.244*	ND	*1.00*	05/09/13	KCA	TO15	
Acetone	81.4	*0.421*	193	*1.00*	05/09/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/09/13	KCA	TO15	
Benzene	8.86	*0.313*	28.3	*1.00*	05/09/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/09/13	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69299

Client ID: S14-SOIL VAPOR 5

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromoform	ND	*0.097*	ND	*1.00*	05/09/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/09/13	KCA	TO15	
Carbon Disulfide	49	*0.321*	152	*1.00*	05/09/13	KCA	TO15	
Carbon Tetrachloride	ND	*0.040*	ND	*0.25*	05/09/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	05/09/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/09/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	1
Cyclohexane	5.06	*0.291*	17.4	*1.00*	05/09/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/09/13	KCA	TO15	
Dichlorodifluoromethane	0.26	*0.202*	1.28	*1.00*	05/09/13	KCA	TO15	
Ethanol	8.93	*0.531*	16.8	*1.00*	05/09/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	1
Ethylbenzene	6.12	*0.230*	26.6	*1.00*	05/09/13	KCA	TO15	
Heptane	7.62	*0.244*	31.2	*1.00*	05/09/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/09/13	KCA	TO15	
Hexane	6.98	*0.284*	24.6	*1.00*	05/09/13	KCA	TO15	
Isopropylalcohol	ND	*0.407*	ND	*1.00*	05/09/13	KCA	TO15	
Isopropylbenzene	1.03	*0.204*	5.06	*1.00*	05/09/13	KCA	TO15	
m,p-Xylene	23.1	*0.230*	100	*1.00*	05/09/13	KCA	TO15	
Methyl Ethyl Ketone	14.8	*0.339*	43.6	*1.00*	05/09/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
Methylene Chloride	0.85	*0.288*	2.95	*1.00*	05/09/13	KCA	TO15	
n-Butylbenzene	1.9	*0.182*	10.4	*1.00*	05/09/13	KCA	TO15	1
o-Xylene	12.6	*0.230*	54.7	*1.00*	05/09/13	KCA	TO15	
Propylene	112	*0.581*	193	*1.00*	05/09/13	KCA	TO15	1
sec-Butylbenzene	0.86	*0.182*	4.72	*1.00*	05/09/13	KCA	TO15	1
Styrene	ND	*0.235*	ND	*1.00*	05/09/13	KCA	TO15	
Tetrachloroethene	0.34	*0.037*	2.30	*0.25*	05/09/13	KCA	TO15	
Tetrahydrofuran	6.41	*0.339*	18.9	*1.00*	05/09/13	KCA	TO15	1
Toluene	37.9	*0.266*	143	*1.00*	05/09/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	
Trichloroethene	0.07	*0.047*	0.376	*0.25*	05/09/13	KCA	TO15	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	05/09/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/09/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	Interference	*%*	Interference	*%*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69299

Client ID: S14-SOIL VAPOR 5

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:

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

May 14, 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

May 14, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	RK	05/06/13	14:10
Location Code:	GC-ENV	Received by:	SW	05/08/13	15:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD69299
Phoenix ID: BD69300

Project ID: 13-070-00
Client ID: S18-SOIL VAPOR 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*	05/09/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trimethylbenzene	17.1	*0.204*	84.0	*1.00*	05/09/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/09/13	KCA	TO15	
1,3,5-Trimethylbenzene	5.14	*0.204*	25.2	*1.00*	05/09/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/09/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	05/09/13	KCA	TO15	1
4-Ethyltoluene	4.89	*0.204*	24.0	*1.00*	05/09/13	KCA	TO15	1
4-Isopropyltoluene	1.29	*0.182*	7.08	*1.00*	05/09/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.41	*0.244*	1.68	*1.00*	05/09/13	KCA	TO15	
Acetone	150	*0.421*	356	*1.00*	05/09/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/09/13	KCA	TO15	
Benzene	2.7	*0.313*	8.62	*1.00*	05/09/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/09/13	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69300

Client ID: S18-SOIL VAPOR 4

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromoform	ND	*0.097*	ND	*1.00*	05/09/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/09/13	KCA	TO15	
Carbon Disulfide	0.39	*0.321*	1.21	*1.00*	05/09/13	KCA	TO15	
Carbon Tetrachloride	ND	*0.040*	ND	*0.25*	05/09/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	05/09/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/09/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	1
Cyclohexane	2.96	*0.291*	10.2	*1.00*	05/09/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/09/13	KCA	TO15	
Dichlorodifluoromethane	0.47	*0.202*	2.32	*1.00*	05/09/13	KCA	TO15	
Ethanol	6.79	*0.531*	12.8	*1.00*	05/09/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	1
Ethylbenzene	9.42	*0.230*	40.9	*1.00*	05/09/13	KCA	TO15	
Heptane	4.74	*0.244*	19.4	*1.00*	05/09/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/09/13	KCA	TO15	
Hexane	6.07	*0.284*	21.4	*1.00*	05/09/13	KCA	TO15	
Isopropylalcohol	1.8	*0.407*	4.42	*1.00*	05/09/13	KCA	TO15	
Isopropylbenzene	5.44	*0.204*	26.7	*1.00*	05/09/13	KCA	TO15	
m,p-Xylene	36.3	*0.230*	158	*1.00*	05/09/13	KCA	TO15	
Methyl Ethyl Ketone	11.5	*0.339*	33.9	*1.00*	05/09/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
Methylene Chloride	1.13	*0.288*	3.92	*1.00*	05/09/13	KCA	TO15	
n-Butylbenzene	2.29	*0.182*	12.6	*1.00*	05/09/13	KCA	TO15	1
o-Xylene	16.2	*0.230*	70.3	*1.00*	05/09/13	KCA	TO15	
Propylene	3	*0.581*	5.16	*1.00*	05/09/13	KCA	TO15	1
sec-Butylbenzene	0.87	*0.182*	4.77	*1.00*	05/09/13	KCA	TO15	1
Styrene	0.44	*0.235*	1.87	*1.00*	05/09/13	KCA	TO15	
Tetrachloroethene	4.27	*0.037*	28.9	*0.25*	05/09/13	KCA	TO15	
Tetrahydrofuran	7.68	*0.339*	22.6	*1.00*	05/09/13	KCA	TO15	1
Toluene	23	*0.266*	86.6	*1.00*	05/09/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	
Trichloroethene	ND	*0.047*	ND	*0.25*	05/09/13	KCA	TO15	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	05/09/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/09/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	105	*%*	105	*%*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69300

Client ID: S18-SOIL VAPOR 4

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:

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

May 14, 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

May 14, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	RK	05/06/13	14:00
Location Code:	GC-ENV	Received by:	SW	05/08/13	15:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD69299
Phoenix ID: BD69301

Project ID: 13-070-00
Client ID: S12-SOIL VAPOR 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*	05/09/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trimethylbenzene	18.1	*0.204*	88.9	*1.00*	05/09/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/09/13	KCA	TO15	
1,3,5-Trimethylbenzene	4.77	*0.204*	23.4	*1.00*	05/09/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/09/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	05/09/13	KCA	TO15	1
4-Ethyltoluene	3.99	*0.204*	19.6	*1.00*	05/09/13	KCA	TO15	1
4-Isopropyltoluene	1.27	*0.182*	6.97	*1.00*	05/09/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.25	*0.244*	1.02	*1.00*	05/09/13	KCA	TO15	
Acetone	34.2	*0.421*	81.2	*1.00*	05/09/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/09/13	KCA	TO15	
Benzene	2.08	*0.313*	6.64	*1.00*	05/09/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/09/13	KCA	TO15	
Bromodichloromethane	0.18	*0.149*	1.20	*1.00*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69301

Client ID: S12-SOIL VAPOR 3

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromoform	ND	*0.097*	ND	*1.00*	05/09/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/09/13	KCA	TO15	
Carbon Disulfide	ND	*0.321*	ND	*1.00*	05/09/13	KCA	TO15	
Carbon Tetrachloride	ND	*0.040*	ND	*0.25*	05/09/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroform	4.29	*0.205*	20.9	*1.00*	05/09/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/09/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	1
Cyclohexane	1.21	*0.291*	4.16	*1.00*	05/09/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/09/13	KCA	TO15	
Dichlorodifluoromethane	0.44	*0.202*	2.17	*1.00*	05/09/13	KCA	TO15	
Ethanol	5.12	*0.531*	9.64	*1.00*	05/09/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	1
Ethylbenzene	7.12	*0.230*	30.9	*1.00*	05/09/13	KCA	TO15	
Heptane	2.71	*0.244*	11.1	*1.00*	05/09/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/09/13	KCA	TO15	
Hexane	3.31	*0.284*	11.6	*1.00*	05/09/13	KCA	TO15	
Isopropylalcohol	1.5	*0.407*	3.68	*1.00*	05/09/13	KCA	TO15	
Isopropylbenzene	0.95	*0.204*	4.67	*1.00*	05/09/13	KCA	TO15	
m,p-Xylene	29	*0.230*	126	*1.00*	05/09/13	KCA	TO15	
Methyl Ethyl Ketone	17.5	*0.339*	51.6	*1.00*	05/09/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
Methylene Chloride	0.68	*0.288*	2.36	*1.00*	05/09/13	KCA	TO15	
n-Butylbenzene	2.41	*0.182*	13.2	*1.00*	05/09/13	KCA	TO15	1
o-Xylene	12	*0.230*	52.1	*1.00*	05/09/13	KCA	TO15	
Propylene	1.76	*0.581*	3.03	*1.00*	05/09/13	KCA	TO15	1
sec-Butylbenzene	0.7	*0.182*	3.84	*1.00*	05/09/13	KCA	TO15	1
Styrene	0.34	*0.235*	1.45	*1.00*	05/09/13	KCA	TO15	
Tetrachloroethene	2.59	*0.037*	17.6	*0.25*	05/09/13	KCA	TO15	
Tetrahydrofuran	5.34	*0.339*	15.7	*1.00*	05/09/13	KCA	TO15	1
Toluene	16.2	*0.266*	61.0	*1.00*	05/09/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	
Trichloroethene	ND	*0.047*	ND	*0.25*	05/09/13	KCA	TO15	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	05/09/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/09/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	104	*%*	104	*%*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69301

Client ID: S12-SOIL VAPOR 3

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:

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

May 14, 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

Analysis Report

May 14, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	RK	05/06/13	13:50
Location Code:	GC-ENV	Received by:	SW	05/08/13	15:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD69299
Phoenix ID: BD69302

Project ID: 13-070-00
Client ID: S7-SOIL VAPOR 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*	05/09/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trimethylbenzene	26.9	*0.204*	132	*1.00*	05/09/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/09/13	KCA	TO15	
1,3,5-Trimethylbenzene	7.74	*0.204*	38.0	*1.00*	05/09/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/09/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	05/09/13	KCA	TO15	1
4-Ethyltoluene	7.76	*0.204*	38.1	*1.00*	05/09/13	KCA	TO15	1
4-Isopropyltoluene	1.47	*0.182*	8.06	*1.00*	05/09/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.46	*0.244*	1.88	*1.00*	05/09/13	KCA	TO15	
Acetone	60	*0.421*	142	*1.00*	05/09/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/09/13	KCA	TO15	
Benzene	3.68	*0.313*	11.7	*1.00*	05/09/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/09/13	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69302

Client ID: S7-SOIL VAPOR 2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromoform	ND	*0.097*	ND	*1.00*	05/09/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/09/13	KCA	TO15	
Carbon Disulfide	3.68	*0.321*	11.4	*1.00*	05/09/13	KCA	TO15	
Carbon Tetrachloride	0.06	*0.040*	0.377	*0.25*	05/09/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroform	0.73	*0.205*	3.56	*1.00*	05/09/13	KCA	TO15	
Chloromethane	ND	*0.484*	ND	*1.00*	05/09/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	1
Cyclohexane	3.13	*0.291*	10.8	*1.00*	05/09/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/09/13	KCA	TO15	
Dichlorodifluoromethane	0.56	*0.202*	2.77	*1.00*	05/09/13	KCA	TO15	
Ethanol	9.34	*0.531*	17.6	*1.00*	05/09/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	1
Ethylbenzene	16.6	*0.230*	72.0	*1.00*	05/09/13	KCA	TO15	
Heptane	5.93	*0.244*	24.3	*1.00*	05/09/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/09/13	KCA	TO15	
Hexane	7.07	*0.284*	24.9	*1.00*	05/09/13	KCA	TO15	
Isopropylalcohol	1.69	*0.407*	4.15	*1.00*	05/09/13	KCA	TO15	
Isopropylbenzene	1.8	*0.204*	8.84	*1.00*	05/09/13	KCA	TO15	
m,p-Xylene	59.4	*0.230*	258	*1.00*	05/09/13	KCA	TO15	
Methyl Ethyl Ketone	18.2	*0.339*	53.6	*1.00*	05/09/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
Methylene Chloride	1.01	*0.288*	3.51	*1.00*	05/09/13	KCA	TO15	
n-Butylbenzene	2.66	*0.182*	14.6	*1.00*	05/09/13	KCA	TO15	1
o-Xylene	30.8	*0.230*	134	*1.00*	05/09/13	KCA	TO15	
Propylene	15.8	*0.581*	27.2	*1.00*	05/09/13	KCA	TO15	1
sec-Butylbenzene	0.8	*0.182*	4.39	*1.00*	05/09/13	KCA	TO15	1
Styrene	0.44	*0.235*	1.87	*1.00*	05/09/13	KCA	TO15	
Tetrachloroethene	0.36	*0.037*	2.44	*0.25*	05/09/13	KCA	TO15	
Tetrahydrofuran	8.41	*0.339*	24.8	*1.00*	05/09/13	KCA	TO15	1
Toluene	65.4	*0.266*	246	*1.00*	05/09/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	
Trichloroethene	ND	*0.047*	ND	*0.25*	05/09/13	KCA	TO15	
Trichlorofluoromethane	0.2	*0.178*	1.12	*1.00*	05/09/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/09/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	109	*%*	109	*%*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69302

Client ID: S7-SOIL VAPOR 2

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:

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

May 14, 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

May 14, 2013

FOR: Attn: Mr. Greg Collins
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	RK	05/06/13	13:45
Location Code:	GC-ENV	Received by:	SW	05/08/13	15:49
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	9888				

Laboratory Data

SDG ID: GBD69299
Phoenix ID: BD69303

Project ID: 13-070-00
Client ID: S2-SOIL VAPOR 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*	05/09/13	KCA	TO15	1
1,1,1-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2,2-Tetrachloroethane	ND	*0.146*	ND	*1.00*	05/09/13	KCA	TO15	
1,1,2-Trichloroethane	ND	*0.183*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,1-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trichlorobenzene	ND	*0.135*	ND	*1.00*	05/09/13	KCA	TO15	
1,2,4-Trimethylbenzene	20.2	*0.204*	99.2	*1.00*	05/09/13	KCA	TO15	
1,2-Dibromoethane(EDB)	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichloroethane	ND	*0.247*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-dichloropropane	ND	*0.216*	ND	*1.00*	05/09/13	KCA	TO15	
1,2-Dichlorotetrafluoroethane	ND	*0.143*	ND	*1.00*	05/09/13	KCA	TO15	
1,3,5-Trimethylbenzene	5.48	*0.204*	26.9	*1.00*	05/09/13	KCA	TO15	
1,3-Butadiene	ND	*0.452*	ND	*1.00*	05/09/13	KCA	TO15	
1,3-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dichlorobenzene	ND	*0.166*	ND	*1.00*	05/09/13	KCA	TO15	
1,4-Dioxane	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
2-Hexanone(MBK)	ND	*0.244*	ND	*1.00*	05/09/13	KCA	TO15	1
4-Ethyltoluene	4.73	*0.204*	23.2	*1.00*	05/09/13	KCA	TO15	1
4-Isopropyltoluene	1.42	*0.182*	7.79	*1.00*	05/09/13	KCA	TO15	1
4-Methyl-2-pentanone(MIBK)	0.68	*0.244*	2.78	*1.00*	05/09/13	KCA	TO15	
Acetone	184	*0.421*	437	*1.00*	05/09/13	KCA	TO15	
Acrylonitrile	ND	*0.461*	ND	*1.00*	05/09/13	KCA	TO15	
Benzene	3.25	*0.313*	10.4	*1.00*	05/09/13	KCA	TO15	
Benzyl chloride	ND	*0.193*	ND	*1.00*	05/09/13	KCA	TO15	
Bromodichloromethane	ND	*0.149*	ND	*1.00*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69303

Client ID: S2-SOIL VAPOR 1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Reference	
Bromoform	ND	*0.097*	ND	*1.00*	05/09/13	KCA	TO15	
Bromomethane	ND	*0.258*	ND	*1.00*	05/09/13	KCA	TO15	
Carbon Disulfide	4.74	*0.321*	14.7	*1.00*	05/09/13	KCA	TO15	
Carbon Tetrachloride	0.06	*0.040*	0.377	*0.25*	05/09/13	KCA	TO15	
Chlorobenzene	ND	*0.217*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroethane	ND	*0.379*	ND	*1.00*	05/09/13	KCA	TO15	
Chloroform	ND	*0.205*	ND	*1.00*	05/09/13	KCA	TO15	
Chloromethane	0.49	*0.484*	1.01	*1.00*	05/09/13	KCA	TO15	
Cis-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
cis-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	1
Cyclohexane	3.35	*0.291*	11.5	*1.00*	05/09/13	KCA	TO15	
Dibromochloromethane	ND	*0.117*	ND	*1.00*	05/09/13	KCA	TO15	
Dichlorodifluoromethane	0.38	*0.202*	1.88	*1.00*	05/09/13	KCA	TO15	
Ethanol	5.15	*0.531*	9.70	*1.00*	05/09/13	KCA	TO15	1
Ethyl acetate	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	1
Ethylbenzene	9.72	*0.230*	42.2	*1.00*	05/09/13	KCA	TO15	
Heptane	5.82	*0.244*	23.8	*1.00*	05/09/13	KCA	TO15	
Hexachlorobutadiene	ND	*0.094*	ND	*1.00*	05/09/13	KCA	TO15	
Hexane	5.41	*0.284*	19.0	*1.00*	05/09/13	KCA	TO15	
Isopropylalcohol	1.15	*0.407*	2.82	*1.00*	05/09/13	KCA	TO15	
Isopropylbenzene	1.31	*0.204*	6.44	*1.00*	05/09/13	KCA	TO15	
m,p-Xylene	38.6	*0.230*	168	*1.00*	05/09/13	KCA	TO15	
Methyl Ethyl Ketone	22.1	*0.339*	65.1	*1.00*	05/09/13	KCA	TO15	
Methyl tert-butyl ether(MTBE)	ND	*0.278*	ND	*1.00*	05/09/13	KCA	TO15	
Methylene Chloride	2.41	*0.288*	8.37	*1.00*	05/09/13	KCA	TO15	
n-Butylbenzene	2.71	*0.182*	14.9	*1.00*	05/09/13	KCA	TO15	1
o-Xylene	16	*0.230*	69.4	*1.00*	05/09/13	KCA	TO15	
Propylene	56	*0.581*	96.3	*1.00*	05/09/13	KCA	TO15	1
sec-Butylbenzene	0.88	*0.182*	4.83	*1.00*	05/09/13	KCA	TO15	1
Styrene	0.48	*0.235*	2.04	*1.00*	05/09/13	KCA	TO15	
Tetrachloroethene	0.41	*0.037*	2.78	*0.25*	05/09/13	KCA	TO15	
Tetrahydrofuran	5.5	*0.339*	16.2	*1.00*	05/09/13	KCA	TO15	1
Toluene	22.9	*0.266*	86.2	*1.00*	05/09/13	KCA	TO15	
Trans-1,2-Dichloroethene	ND	*0.252*	ND	*1.00*	05/09/13	KCA	TO15	
trans-1,3-Dichloropropene	ND	*0.220*	ND	*1.00*	05/09/13	KCA	TO15	
Trichloroethene	ND	*0.047*	ND	*0.25*	05/09/13	KCA	TO15	
Trichlorofluoromethane	ND	*0.178*	ND	*1.00*	05/09/13	KCA	TO15	
Trichlorotrifluoroethane	ND	*0.130*	ND	*1.00*	05/09/13	KCA	TO15	
Vinyl Chloride	ND	*0.098*	ND	*0.25*	05/09/13	KCA	TO15	
QA/QC Surrogates								
% Bromofluorobenzene	121	*%*	121	*%*	05/09/13	KCA	TO15	

Project ID: 13-070-00 Phoenix I.D.: BD69303

Client ID: S2-SOIL VAPOR 1

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:

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

May 14, 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

QA/QC Report

May 14, 2013

QA/QC Data

SDG I.D.: GBD69299

QA/QC Batch 230032, QC Sample No: BD69303 (BD69299, BD69300, BD69301, BD69302, BD69303)

Volatiles

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
1,1,1,2-Tetrachloroethane	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
1,1,1-Trichloroethane	ND	ND	102	ND	ND	ND	ND	NC	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,1,2-Trichloroethane	ND	ND	110	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethane	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
1,1-Dichloroethene	ND	ND	116	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trichlorobenzene	ND	ND	94	ND	ND	ND	ND	NC	70 - 130	20
1,2,4-Trimethylbenzene	ND	ND	96	99.2	102	20.2	20.8	2.9	70 - 130	20
1,2-Dibromoethane(EDB)	ND	ND	114	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorobenzene	ND	ND	84	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichloroethane	ND	ND	108	ND	ND	ND	ND	NC	70 - 130	20
1,2-dichloropropane	ND	ND	110	ND	ND	ND	ND	NC	70 - 130	20
1,2-Dichlorotetrafluoroethane	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
1,3,5-Trimethylbenzene	ND	ND	94	26.9	27.8	5.48	5.65	3.1	70 - 130	20
1,3-Butadiene	ND	ND	98	ND	ND	ND	ND	NC	70 - 130	20
1,3-Dichlorobenzene	ND	ND	91	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dichlorobenzene	ND	ND	89	ND	ND	ND	ND	NC	70 - 130	20
1,4-Dioxane	ND	ND	103	ND	ND	ND	ND	NC	70 - 130	20
2-Hexanone(MBK)	ND	ND	106	ND	22.8	ND	5.56	NC	70 - 130	20
4-Ethyltoluene	ND	ND	95	23.2	27.0	4.73	5.49	14.9	70 - 130	20
4-Isopropyltoluene	ND	ND	101	7.79	8.28	1.42	1.51	6.1	70 - 130	20
4-Methyl-2-pentanone(MIBK)	ND	ND	106	2.78	3.03	0.68	0.74	8.5	70 - 130	20
Acetone	ND	ND	102	347	392	146	165	12.2	70 - 130	20
Acrylonitrile	ND	ND	112	ND	ND	ND	ND	NC	70 - 130	20
Benzene	ND	ND	88	10.4	10.8	3.25	3.4	4.5	70 - 130	20
Benzyl chloride	ND	ND	83	ND	ND	ND	ND	NC	70 - 130	20
Bromodichloromethane	ND	ND	116	ND	ND	ND	ND	NC	70 - 130	20
Bromoform	ND	ND	99	ND	ND	ND	ND	NC	70 - 130	20
Bromomethane	ND	ND	100	ND	ND	ND	ND	NC	70 - 130	20
Carbon Disulfide	ND	ND	94	14.7	15.6	4.74	5	5.3	70 - 130	20
Carbon Tetrachloride	ND	ND	102	0.377	0.377	0.06	0.06	0.0	70 - 130	20
Chlorobenzene	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Chloroethane	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Chloroform	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Chloromethane	ND	ND	96	ND	ND	ND	ND	NC	70 - 130	20
Cis-1,2-Dichloroethene	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
cis-1,3-Dichloropropene	ND	ND	118	ND	ND	ND	ND	NC	70 - 130	20
Cyclohexane	ND	ND	86	11.5	12.1	3.35	3.52	4.9	70 - 130	20
Dibromochloromethane	ND	ND	114	ND	ND	ND	ND	NC	70 - 130	20
Dichlorodifluoromethane	ND	ND	107	2.03	1.98	0.41	0.4	2.5	70 - 130	20
Ethanol	ND	ND	101	9.70	10.4	5.15	5.53	7.1	70 - 130	20

QA/QC Data

SDG I.D.: GBD69299

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	99	ND	ND	ND	ND	NC	70 - 130	20
Ethylbenzene	ND	ND	95	42.2	44.3	9.72	10.2	4.8	70 - 130	20
Heptane	ND	ND	111	23.8	22.2	5.82	5.42	7.1	70 - 130	20
Hexachlorobutadiene	ND	ND	89	ND	ND	ND	ND	NC	70 - 130	20
Hexane	ND	ND	93	19.0	19.8	5.41	5.62	3.8	70 - 130	20
Isopropylalcohol	ND	ND	98	2.82	3.00	1.15	1.22	5.9	70 - 130	20
Isopropylbenzene	ND	ND	101	6.44	6.63	1.31	1.35	3.0	70 - 130	20
m,p-Xylene	ND	ND	98	168	171	38.6	39.5	2.3	70 - 130	20
Methyl Ethyl Ketone	ND	ND	99	65.1	68.4	22.1	23.2	4.9	70 - 130	20
Methyl tert-butyl ether(MTBE)	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
Methylene Chloride	ND	ND	96	8.37	5.45	2.41	1.57	42.2	70 - 130	20
n-Butylbenzene	ND	ND	96	14.9	15.4	2.71	2.8	3.3	70 - 130	20
o-Xylene	ND	ND	96	69.4	71.6	16	16.5	3.1	70 - 130	20
Propylene	ND	ND	97	93.4	98.4	54.3	57.2	5.2	70 - 130	20
sec-Butylbenzene	ND	ND	99	4.83	4.94	0.88	0.9	2.2	70 - 130	20
Styrene	ND	ND	93	2.26	2.34	0.53	0.55	3.7	70 - 130	20
Tetrachloroethene	ND	ND	107	3.25	2.85	0.48	0.42	13.3	70 - 130	20
Tetrahydrofuran	ND	ND	99	16.2	18.4	5.5	6.26	12.9	70 - 130	20
Toluene	ND	ND	105	86.2	81.0	22.9	21.5	6.3	70 - 130	20
Trans-1,2-Dichloroethene	ND	ND	105	ND	ND	ND	ND	NC	70 - 130	20
trans-1,3-Dichloropropene	ND	ND	104	ND	ND	ND	ND	NC	70 - 130	20
Trichloroethene	ND	ND	109	ND	ND	ND	ND	NC	70 - 130	20
Trichlorofluoromethane	ND	ND	110	1.01	ND	0.18	ND	NC	70 - 130	20
Trichlorotrifluoroethane	ND	ND	110	ND	ND	ND	ND	NC	70 - 130	20
Vinyl Chloride	ND	ND	101	ND	ND	ND	ND	NC	70 - 130	20
% Bromofluorobenzene	81	81	104	121	122	121	122	0.8	70 - 130	20

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
May 14, 2013

Sample Criteria Exceedences Report

GBD69299 - GC-ENV

Requested Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

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

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

CHAIN OF CUSTODY RECORD
AIR ANALYSES

800-827-5426

email: greg@phoenixlabs.com

P.O. # 9888 Page of

Data Delivery:
- ☑ Fax #: 631-206-3729
- ☑ Email: ravi kolaventi @ gc environmental .com
- ☑ Phone #: 631-206-3700

Report to: Ravi Kumar Kolaventi

Customer: GC-Env.

Address: 22 Oak street
Bay shore, NY 11706

Invoice to: Debra Brown

Sampled by: Ravi Kumar

Project Name: 13-070-00

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	
69299	S14 - Soil Vapor 5	221	6L	-30	28	5648	41.6	12:20	02:20	05/06/13	28	5		✓			✓
69300	S18 - Soil Vapor 4	11287			29	4985		12:10	02:10	"	29	5		✓			✓
69301	S12 Soil Vapor 3	215			28	5650		12:00	02:00	"	28	5		✓			✓
69302	S7 - Soil Vapor 2	12858			28	5656		11:50	01:50	"	28	3		✓			✓
69303	S2 - Soil Vapor 1	13643			30	5350		11:45	01:45	05/06/13	30	5		✓			✓
	6L 2hr																

Relinquished by:	Accepted by:	Date:	Time:
		5-8-13	12:30
	Charadise	5-8-13	1549

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

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

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 D

Project:
Limited Bulk Survey

Location:
1875 Atlantic Avenue
Brooklyn, New York 11233

Prepared For:
Martin Dunn
Atlantic Columbus ,L.P.
c/o Dunn Development Corp.
316 Douglass Street, 2nd Floor
Brooklyn, New York 11217

Prepared by:
Lawrence Environmental Group, LLC
350 Lexington Avenue
12th Floor PH
New York, NY 10016

NYSDOL # 05-0243

Project # MSCCOM 144

Date of Inspection:
May 14, 2013

Date of Report:
May 28, 2013

TABLE OF CONTENTS

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III. Asbestos Survey	3
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V Conclusion	4

Appendix A - Sample Results & Chain of Custody
Appendix B - Licensure and Certifications
Appendix C – Work Area Sketches & Sampling Locations
Appendix D – Photo Log

I. SUBJECT

At the request of Dunn Development Corp., Lawrence Environmental Group, LLC (LEG) performed a bulk sampling survey and visual inspection of the entire building and roof to identify asbestos containing materials (ACM) at 1875 Atlantic Avenue, Brooklyn, New York 11233.

LEG is licensed to perform this work by the New York State Department of labor. (A copy of the LEG Asbestos Handling License is included in appendix B of this report).

II. PURPOSE

The purpose of the inspection was to identify ACM with a potential to be impacted during future demolition. A detailed floor plan of the building was not provided.

The area of work for this survey is outlined on a map (not to scale) included in Appendix C of this report.

III. ASBESTOS SURVEY

The asbestos survey consisted of a visual inspection and bulk sampling to identify ACM within the designated space. The inspections were conducted by Sheila Bubka, (Certified Industrial Hygienist, NYC and NYS certified asbestos investigator/inspector) and Patricia Olori a NYS licensed asbestos inspector.

Samples were collected from suspect materials throughout the building and the roof. Samples were identified with a unique ID number, with sampling locations labeled and documented. Suspect materials were sampled and submitted for analysis to determine asbestos content.

Analysis was performed via EPA Method 600M4 (laboratory manual approval Items 198.1 utilizing Polarized Light Microscopy (PLM). All bulk samples collected were submitted to AmeriSci New York, 117 East 30th Street, New York, NY 10016 for analysis. AmeriSci is approved by the NYS ACM were based on guidelines published by the United States Environmental Protection Agency (EPA).[1] The EPA defines asbestos as any material that contains more than 1% asbestos.

IV. DISCUSSION/ SUMMARY

A total of twenty-five (25) bulk samples were collected and submitted for laboratory analysis to determine if these materials contained asbestos. Laboratory analysis indicated that the following materials were asbestos containing material:

- aircell insulation
- 9X9 maroon tile and mastic throughout the first floor.
- 9X9 pink tile in the second floor bathroom.

Note that a minimum of three samples of pipe insulation and two samples of miscellaneous materials (tiles, mastic, ceiling tiles, etc) were collected and submitted as a representative sampling group with a positive

[1] Environmental Protection Agency, Guidelines for Controlling Asbestos-Containing Materials in Buildings, Office of Pesticides and Toxic Substances, EPA Report Number 560/5-85-024.

stop protocol. Aircell insulation was identified as homogeneous throughout the boiler room, hallway and machine storage room. Maroon floor tiles were homogeneous throughout the first floor and pink tiles were homogeneous in the second floor bathroom. The samples were collected 5/14/2013 by a certified NYCDEP asbestos inspector.

Approximate quantities of asbestos containing materials are listed below:

9X9 Maroon Speckled Tile and Mastic-1st Floor: 1350 square feet
9X9 Pink Speckled Tile-2nd Floor Bathroom: 40 square feet
Aircell Insulation Boiler Room, Hallway, Parts Storage Room-25 linear feet

The results are summarized below (See Appendix A for the bulk sampling logs and the chain of custody).

Table 1 Asbestos Containing Materials

Investigator	# of Samples	Material	PLM Results
Sheila Bubka & Patricia Olori	3	Aircell Insulation	4.5 % Asbestos
Sheila Bubka & Patricia Olori	2	9X9 Maroon Tile	5.9 % Asbestos
Sheila Bubka & Patricia Olori	2	Mastic	1.9 % Asbestos
Sheila Bubka & Patricia Olori	2	9X9 Pink Tile	5.4 % Asbestos

Appendix C includes a sketch of the sample locations. Appendix D includes photo documentation of the assumed ACM.

IV. CONCLUSION

Prior to demolition all asbestos containing materials need to be removed. This work must be performed by a licensed asbestos abatement contractor in compliance with all federal, state and NYC asbestos rules and regulations.

DISCLAIMER

The opinions expressed in this document are based solely on the scope of work conducted and sources referred to therein. The presented data was collected and analyzed using accepted industry methods, procedures and practices in effect at the time this report was generated.

No inferences regarding other conditions, locations or materials at a later or earlier time may be made based on the contents of this report. No other warranty, express or limited is made. Lawrence Environmental Group's liability and that of its contractors and subcontractors, arising from any services rendered hereunder, shall not exceed the total fee paid by the client to Lawrence Environmental Group for this project. This report was prepared for the sole use of our client. The use of this report by anyone other than our client or Lawrence Environmental Group is strictly prohibited without the expressed written consent of Lawrence Environmental Group. Portions of this report may not be used independently of the entire report.

Unless specified otherwise, Lawrence Environmental Group does not have access to any previous inspection data performed by others prior to this testing. The report attached hereto relates only to those areas required to be tested and actually tested.

Appendix A

Sample Results & Chain of Custody

Please Reply To:

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

FACSIMILE TELECOPY TRANSMISSION

To: Jill Kaplan
Lawrence Environmental Group, LLC

Fax #:

Email: jkaplan@legllc.com,wrichardson@legllc.com,sanderson@legllc.com,csmith@legllc.com

From: Ella Babayeva
AmeriSci Job #: 213053177
Subject: ELAP-PLM/TEM 3 day Results
Client Project: 1875 Atlantic Avenue, Brooklyn, NY

Date: Friday, May 17, 2013
Time: 20:10:08
Comments:

Number of Pages: 10
(including cover sheet)

CONFIDENTIALITY NOTICE: Unless otherwise indicated, the information contained in this communication is confidential information intended for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US Postal Service at our expense. Preliminary data reported here will be verified before final report is issued. Samples are disposed of in 60 days or unless otherwise instructed by the protocol or special instructions in writing. Thank you.

AmeriSci New York
117 EAST 30TH ST.
NEW YORK, NY 10016
TEL: (212) 679-8600 • FAX: (212) 679-3114

PLM Bulk Asbestos Report

Lawrence Environmental Group, LLC
Attn: Jill Kaplan
350 Lexington Avenue
12 Floor PH
New York, NY 10016

Date Received 05/15/13 **AmeriSci Job #** 213053177
Date Examined 05/17/13 **P.O. #**
ELAP # 11480 **Page** 1 **of** 5
RE: 1875 Atlantic Avenue, Brooklyn, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1 1	213053177-01 **Location:** Front Lobby - 9x9 Maroon Floor Tile	***Yes***	5.9 % (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Maroon, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 5.9 % **Other Material:** Non-fibrous 32.2 %			
1A 1	213053177-02 **Location:** Front Lobby - 9x9 Maroon Floor Tile		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
2 2	213053177-03 **Location:** Front Lobby - Tile Mastic	***Yes***	1.9 % (ELAP 198.6; 400pc) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 1.9 % **Other Material:** Non-fibrous 22.1 %			
2A 2	213053177-04 **Location:** Front Lobby - Tile Mastic		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
3 3	213053177-05 **Location:** Office Area - Tile 12x12 Black Speckled	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.6 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

1875 Atlantic Avenue, Brooklyn, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
3A 3	213053177-06 **Location:** Office Area - Tile 12x12 Black Speckled	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.1 %			
4 4	213053177-07 **Location:** Outside Boiler Rm. - Pipe Insulation	***Yes***	4.5 % (ELAP 198.1; 400pc) by Ella Babayeva on 05/17/13
Analyst Description: Grey/Tan, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** Chrysotile 4.5 % **Other Material:** Cellulose 90 %, Non-fibrous 5.5 %			
4A 4	213053177-08 **Location:** Boiler Rm. - Pipe Insulation		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
4B 4	213053177-09 **Location:** Boiler Rm. - Pipe Insulation		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
5 5	213053177-10 **Location:** Warehouse - East Wall - Grout	***No***	NAD (by NYS ELAP 198.1) by Ella Babayeva on 05/17/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
5A 5	213053177-11 **Location:** Warehouse - South Wall - Grout	***No***	NAD (by NYS ELAP 198.1) by Ella Babayeva on 05/17/13
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

1875 Atlantic Avenue, Brooklyn, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
6 6	213053177-12 **Location:** 2nd Floor Office - White Speckled 12x12 Tile	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.8 %			
6A 6	213053177-13 **Location:** 2nd Floor Office - White Speckled 12x12 Tile	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: White, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.7 %			
7 7	213053177-14 **Location:** 2nd Floor Bathroom - 9x9 Pink Tile	***Yes***	5.4 % (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Pink, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 5.4 % **Other Material:** Non-fibrous 32.5 %			
7A 7	213053177-15 **Location:** 2nd Floor Bathroom - 9x9 Pink Tile		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
8 8	213053177-16 **Location:** 2nd Floor Bathroom - Tile Mastic	***Yes***	Trace (<0.25 % pc) (ELAP 198.6; 400pc) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 9.4 %			
8A 8	213053177-17 **Location:** 2nd Floor Bathroom - Tile Mastic	***Yes***	Trace (<0.25 % pc) (ELAP 198.6; 400pc) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile <0.25 % pc **Other Material:** Non-fibrous 12.9 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

1875 Atlantic Avenue, Brooklyn, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
9 9	213053177-18 **Location:** 2nd Floor Office Area - Ceiling Tile	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 52.9 %			
9A 9	213053177-19 **Location:** 2nd Floor Office Area - Ceiling Tile	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Grey, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 37.2 %			
10 10	213053177-20 **Location:** Roof - Top - Top Layer	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.5 %			
10A 10	213053177-21 **Location:** Roof - Top - Tar Layer	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.6 %			
10B 10	213053177-22 **Location:** Roof - Top - Top Layer	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.5 %			
10C 10	213053177-23 **Location:** Roof - Top - Tar Layer	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

1875 Atlantic Avenue, Brooklyn, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
10D 10	213053177-24 **Location:** Roof - Top - Top Layer	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.5 %			
10E 10	213053177-25 **Location:** Roof - Top - Tar Layer	***No***	NAD (by NYS ELAP 198.6) by Ella Babayeva on 05/17/13
Analyst Description: Black, Homogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6.2 %			

Reporting Notes:

Analyzed by: Ella Babayeva

*NAD/NSD =no asbestos detected; NA =not analyzed; NA/PS=not analyzed/positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 200546-0), ELAP PLM Method 198.1 for NY friable samples, which includes the identification and quantitation of vermiculite or 198.6 for NOB samples (NY ELAP Lab ID11480); Note:PLM is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos-containing in NY State (also see EPA Advisory for floor tile, FR 59,146,38970,8/1/94) National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the lab.This PLM report relates ONLY to the items tested. AIHA Lab # 102843, RI Cert#AAL-094, CT Cert#PH-0186, Mass Cert#AA000054.

Reviewed By:_____ END OF REPORT

AmeriSci Job #: **213053177**

Client Name: Lawrence Environmental Group, LLC

Table I
Summary of Bulk Asbestos Analysis Results
1875 Atlantic Avenue, Brooklyn, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	1	1	0.462	19.9	42.0	32.2	Chrysotile 5.9	NA
Location:	Front Lobby - 9x9 Maroon Floor Tile							
02	1A	1	0.279	17.2	48.4	34.4	NA/PS	NA
Location:	Front Lobby - 9x9 Maroon Floor Tile							
03	2	2	0.254	48.8	27.2	22.1	Chrysotile 1.9	NA
Location:	Front Lobby - Tile Mastic							
04	2A	2	0.135	61.5	25.2	13.3	NA/PS	NA
Location:	Front Lobby - Tile Mastic							
05	3	3	0.251	11.2	87.3	1.6	NAD	NAD
Location:	Office Area - Tile 12x12 Black Speckled							
06	3A	3	0.239	10.9	87.0	2.1	NAD	NAD
Location:	Office Area - Tile 12x12 Black Speckled							
07	4	4	---	---	---	---	Chrysotile 4.5	NA
Location:	Outside Boiler Rm. - Pipe Insulation							
08	4A	4	---	---	---	---	NA/PS	NA
Location:	Boiler Rm. - Pipe Insulation							
09	4B	4	---	---	---	---	NA/PS	NA
Location:	Boiler Rm. - Pipe Insulation							
10	5	5	---	---	---	---	NAD	NA
Location:	Warehouse - East Wall - Grout							
11	5A	5	---	---	---	---	NAD	NA
Location:	Warehouse - South Wall - Grout							
12	6	6	0.242	7.4	91.7	0.8	NAD	NAD
Location:	2nd Floor Office - White Speckled 12x12 Tile							
13	6A	6	0.299	8.0	91.3	0.7	NAD	NAD
Location:	2nd Floor Office - White Speckled 12x12 Tile							
14	7	7	0.290	16.9	45.2	32.5	Chrysotile 5.4	NA
Location:	2nd Floor Bathroom - 9x9 Pink Tile							
15	7A	7	0.260	15.0	45.0	40.0	NA/PS	NA
Location:	2nd Floor Bathroom - 9x9 Pink Tile							
16	8	8	0.256	75.8	14.8	9.3	Chrysotile <0.25	Chrysotile Trace
Location:	2nd Floor Bathroom - Tile Mastic							

See Reporting notes on last page

AmeriSci Job #: **213053177**

Client Name: Lawrence Environmental Group, LLC

Table I
Summary of Bulk Asbestos Analysis Results
1875 Atlantic Avenue, Brooklyn, NY

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	8A	8	0.163	71.8	15.3	12.8	Chrysotile <0.25	Chrysotile Trace
Location:	2nd Floor Bathroom - Tile Mastic							
18	9	9	0.399	16.8	30.3	52.9	NAD	NAD
Location:	2nd Floor Office Area - Ceiling Tile							
19	9A	9	0.341	24.6	38.1	37.2	NAD	NAD
Location:	2nd Floor Office Area - Ceiling Tile							
20	10	10	0.268	83.6	14.9	1.5	NAD	NAD
Location:	Roof - Top - Top Layer							
21	10A	10	0.315	97.8	1.6	0.6	NAD	NAD
Location:	Roof - Top - Tar Layer							
22	10B	10	0.200	83.0	15.5	1.5	NAD	NAD
Location:	Roof - Top - Top Layer							
23	10C	10	0.305	73.8	24.3	2.0	NAD	NAD
Location:	Roof - Top - Tar Layer							
24	10D	10	0.390	62.3	36.2	1.5	NAD	NAD
Location:	Roof - Top - Top Layer							
25	10E	10	0.241	80.1	13.7	6.2	NAD	NAD
Location:	Roof - Top - Tar Layer							

Analyzed by: Marik Peysakhov_____; Date Analyzed 5/17/2013

**Quantitative Analysis (Semi/Full); Bulk Asbestos Analysis - PLM by EPA 600/M4-82-020 per 40 CFR or ELAP 198.1 for New York friable samples or ELAP 198.6 for New York NOB samples; TEM (Semi/Full) by EPA 600/R-93/116 (not covered by NVLAP Bulk accreditation) or ELAP 198.4; for New York samples; NAD = no asbestos detected during a quantitative analysis; NA = not analyzed; Trace = <1%; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only; Qualitative Analysis: Asbestos analysis results of "Present" or "NVA = No Visible Asbestos" represents results for Qualitative PLM or TEM Analysis only (no accreditation coverage available from any regulatory agency for qualitative analyses): AIHA Lab # 102843, NVLAP Lab Code 200546-0, NYSDOH ELAP Lab ID#11480.

Warning Note: PLM limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris for which PLM evaluation is recommended (i.e. soils and other heterogenous materials).

Reviewed By:_____

Relinquished By: _____ Date/Time: _____

Received By: [signature] Date/Time: 5/15/13 1153

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

AMERISCI

WWW.AMERISCI.COM

BULK CHAIN OF CUSTODY

AMERISCI NEW YORK
117 EAST 30TH STREET
NEW YORK, NY 10016
TOLL FREE: (800) 705-5227
PHONE: (212) 679-8600
FAX: (212) 679-9392

Company: Lawrence Environmental

Street Address: 350 Lexington Avenue, 12th Flor

City: New York State: NY Zip: 10016

Phone: 212-682-2001 Fax: 212-682-1991

Cell: Fax:

E-mail: wattsmith@lesllc.com Verbal Results: Y / N

Results to: Chris Smith

Project: 1875 Atlantic Avenue AMERISCI #:

Proj Mgr: Chris Smith. Proj #:

Proj Address: 1875 Atlantic Aven, Brooklyn Proj State: NY

Analysis: X PLM; X Positive Stop; __TEM; X NY ELAP PLM/TEM w/ NOB Prep

ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments

Turnaround Time: Normal Material Type: X Bulk __ Dust __ Wat

Sampled By: Shane Bubk Date Sampled: 5/14/2013

Special Instructions or Comments: Stop at first Positive.

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Are
	1	Front Lobby	9x9 Maroon floor tile	X
	1A	Front Lobby	9x9 Maroon flor tile	X
	2	Front Lobby	Tile Mastic	X
	2A	Front Lobby	Tile Mastic	X
	3	Office Area	Tile 12x12 Black Speckled	X
	3A	Office Area	Tile 12x12 Black Speckled	X
	4	Outside Boiler Rm	Pipe Insulation	
	4A	Boiler Rm	Pipe Insulation	
	4B	Boiler Room	Pipe Insulation	
	5	Warehouse - East wall	- Grout	
	5A	Warehouse - Southwall	Grout	
	6	2nd Floor Office	White Speckled 12x12 Tile	
	6A	2nd Floor Office	white speckled 12x12 Tile	
	7	2nd Floor Bathroom	9x9 Pink Tile	
	7A	2nd Floor Bathroom	9x9 Pink tile	
	8	2nd Floor Bathroom	Tile Mastic	
	8A	2nd Flor Bathroom	Tile Mastic	

2130531 7

Relinquished By: _____ Date/Time: _____

Received By: [illegible] Date/Time: 5/15/13 1153

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

AMERISCI

WWW.AMERISCI.COM

BULK CHAIN OF CUSTODY

AMERISCI NEW YORK
117 EAST 30TH STREET
NEW YORK, NY 10016
TOLL FREE: (800) 705-5227
PHONE: (212) 679-8600
FAX: (212) 679-9392

Company: Lawrence Environmental Ass

Street Address: 350 Lexington Avenue

City: New York State: NY Zip: 10016

Phone: 212-682-2001 Fax:

Cell: Fax:

E-mail csmith@legllc.com Verbal Results: Y / N

Results to: Chris Smith

Special Instructions or Comments: Stop at first positive

Project: 1875 Atlantic Blvd AMERISCI #:

Proj Mgr: Chris Smith Proj #:

Proj Address: Same Proj State:

Analysis: X PLM; X Positive Stop. __TEM; X NY ELAP PLM/TEM w/ NOB Prep.

ASTM Dust __ (Microvac) __ (Wipe); __ Qualitative; __ Other (describe in comments)

Turnaround Time: Normal Material Type: X Bulk __ Dust __ Water

Sampled By: Sherle Bibbe Date Sampled: 5/14/13

Lab ID	Field ID	Location	Sample Description (dust area)	Homogenous Area
	9	2nd Floor Office Area	Ceiling Tile	X
	9A	2nd Floor Office Area	Ceiling Tile	X
	10	Roof - Top	Top Layer	
	10A		Tar Layer	
	10B		Top Layer	
	10C		Tar Layer	
	10D		Top Layer	
	10E		Tar Layer	

213053177

Appendix B

Licenses & Certifications

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Lawrence Environmental Group, LLC
12th Floor PH
350 Lexington Ave.

New York, NY 10016

FILE NUMBER: 05-0243
LICENSE NUMBER: 29546
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 03/13/2013
EXPIRATION DATE: 03/31/2014

Duly Authorized Representative – Scott Smith

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Eileen M. Franko, Acting Director
For the Commissioner of Labor

SH 432 (8/12)

NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

LAB ID: 11480

April 01, 2012

MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

Certificate Expiration Date:
April 01, 2013

Dear Mr. Mucha,

Enclosed are Certificate(s) of Approval issued to your environmental laboratory for the current permit year. The Certificate(s) supersede(s) any previously issued one(s) and is(are) in effect through the expiration date listed. Please carefully examine the Certificate(s) to insure that the categories, subcategories, analytes, and methods for which your laboratory is approved are correct. In addition, verify that your laboratory's name, address, lead technical director, and identification number are accurate.

Pursuant to NYCRR Subpart 55-2.2, original certificates must be posted conspicuously in the laboratory and copies shall be made available to any client of the laboratory upon request.

Pursuant to NYCRR Subpart 55-2.6, any misrepresentation of the Fields of Accreditation (Matrix - Method - Analyte) for which your laboratory is approved may result in denial, suspension, or revocation of your certification. Any use of the Environmental Laboratory Approval Program (ELAP) or National Environmental Laboratory Accreditation Program (NELAP) name, reference to the laboratory's approval status, and/or using the NELAP logo in any catalogs, advertising, business solicitations, proposals, quotations, laboratory analytical reports, or other materials must include the laboratory's ELAP identification number and distinguish between testing for which the laboratory is approved and testing for which the laboratory is not approved.

If you have any questions, please contact ELAP at the New York State Department of Health (NYS DOH), Wadsworth Center, PO Box 509, Albany NY, 12201-0509; by phone at (518) 485-5570; by facsimile at (518) 485-5568; and by email at elap@health.state.ny.us.

Sincerely,

Stephanie E. Ostrowski

STEPHANIE OSTROWSKI, PH.D.
Program Director
Environmental Laboratory Approval Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2013
Issued April 1, 2012

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

Is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Drinking Water Miscellaneous

Asbestos	EPA 100.1
	EPA 100.2

Serial No.: 46751

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2013
Issued April 1, 2012

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. PAUL MUCHA
AMERICA SCIENCE TEAM NEW YORK INC
117 EAST 30TH ST
NEW YORK, NY 10016

NY Lab Id No: 11480

Is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos In Friable Material	EPA 600/M4/82/020
	Item 198.1 of Manual
Asbestos In Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos In Non-Friable Material-TEM	Item 198.4 of Manual

Serial No.: 46752

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE
SHEILA R BUBKA
CLASS(EXPIRES)
D INSP(01/14)
DEPARTMENT OF LABOR
CERT# 89-03384
DMV# 987487111
MUST BE CARRIED ON ASBESTOS PROJECTS

Certification No.	NY-R-128113-1
Date of Birth 12/21/1964	Expiration Date 12/14/2015

Address

21 Woodrum Dr.
Stony Point, NY 10980

Badge Holder's Name

Patricia M. Olori

Badge Holder's Signature

Patricia Olori

If found, drop in any mailbox
Postmaster: Please return to:

US EPA
1200 Pennsylvania Ave, NW
(MC-7404T)
Washington, DC 20460
or Call 1-800-424-LEAD

New York
RISK ASSESSOR

Certified Lead-Based Paint Professional

IF FOUND RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12240

EYES BRO
HAIR BRO
HGT 5' 05"

STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

PATRICIA M OLORI
CLASS(EXPIRES)
D INSP(12/13) H PM (12/13)

CERT# 11-13959
DMV# 575278945
MUST BE CARRIED ON ASBESTOS PROJECTS

NYC DEP Asbestos Control Program
Asbestos Certificate

BUBKA,
SHEILA R
INVESTIGATOR
116320
EXPIRES: 1/27/2014
DOB:1/27/1958 F 5' 04"

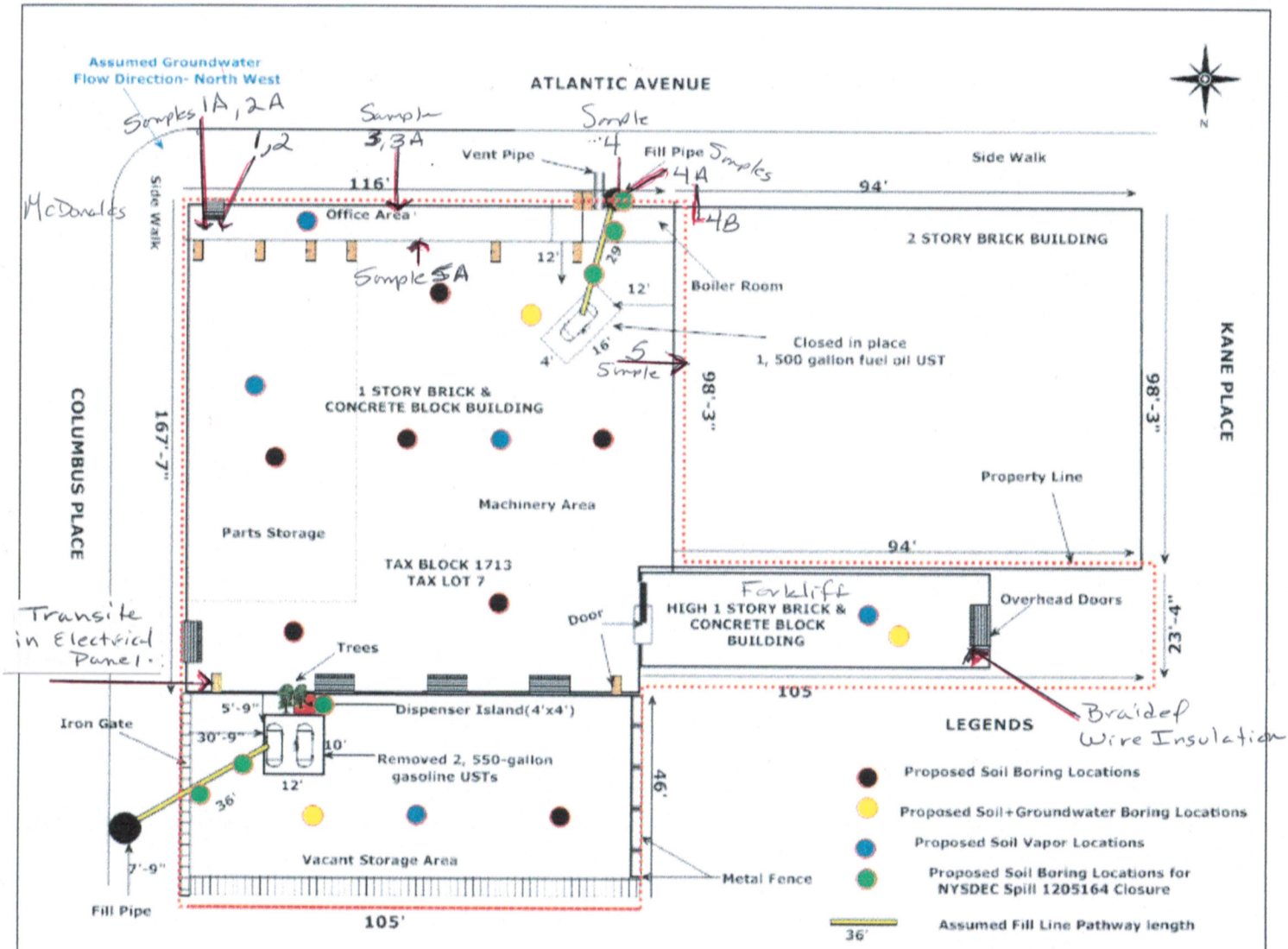
Must be carried on all asbestos projects

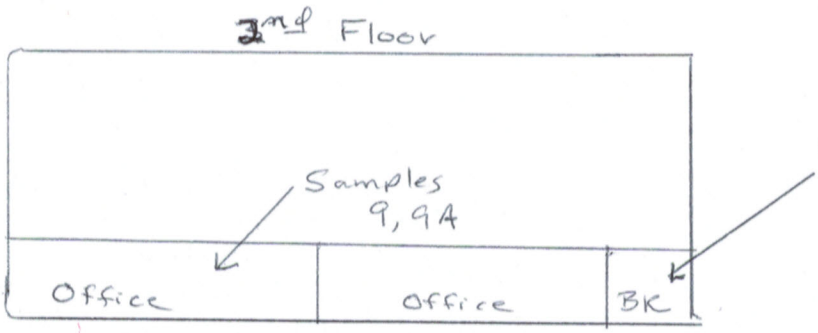
DMV ID: 987 487 111

This certificate must be shown to a
NYCDEP representative upon request.
Report loss immediately to NYCDEP
Asbestos Control Program, 8th floor
59-17 Junction Blvd., Flushing, NY 11373

Appendix C

Work Area Sketches & Sampling Locations





Parcel Area= 21,126 SQ.FT.
or 0.48499 ACRE

Tax Block 1713
Tax Lot 7

G. C. ENVIRONMENTAL, INC.
CONSULTANTS CONTRACTORS

22 OAK STREET
BAY SHORE, NEW YORK 11706

TEL: (631) 206-3700
FAX: (631) 206-3729

SITE PLAN (SAMPLING MAP)

1875 ATLANTIC AVENUE
BROOKLYN, NY 11233

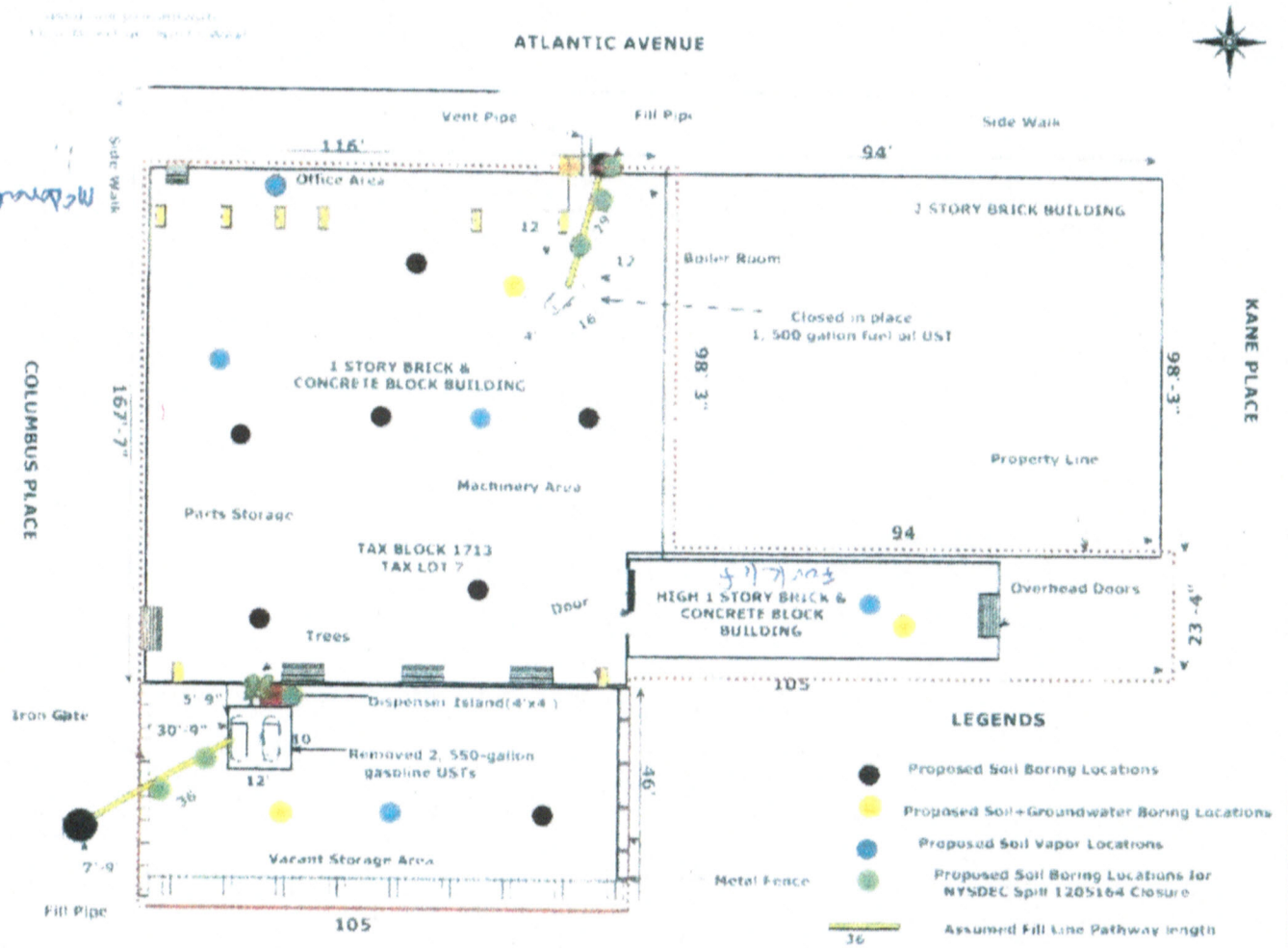
GCE PROJECT NO.: 13-023-00

FIGURE 2

SITE PLAN

Parcel Area= 21,126 SQ.FT.
or 0.48499 ACRE

0 35
SCALE: 1"= 35'



Parcel Area= 21,126 SQ.FT.
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BAY SHORE, NEW YORK 11706

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SITE PLAN (SAMPLING MAP)

1875 ATLANTIC AVENUE
BROOKLYN, NY 11233

GCE PROJECT NO.: 13-023-00

FIGURE 2

SITE PLAN

Parcel Area= 21,126 SQ.FT.
or 0.48499 ACRE

0 35
SCALE: 1"= 35'

G. C. Environmental, Inc.
Consultants Contractors

22 Oak Street
Bay Shore, New York 11706

Tel: (631) 206-3700
Fax: (631) 206-3729

Property Plan

1875 Atlantic Avenue,
Brooklyn, NY 11233

GCE Project No.: 12-026-00

Figure 2

PROPERTY PLAN

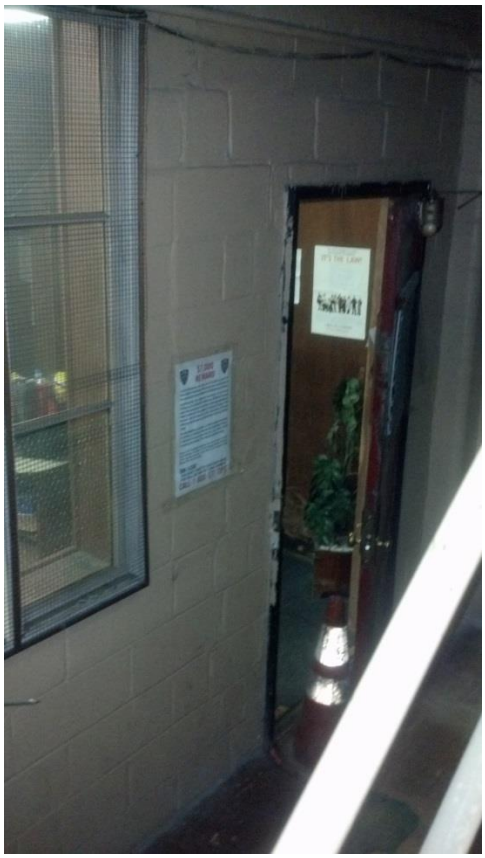
Appendix D

Photo Log

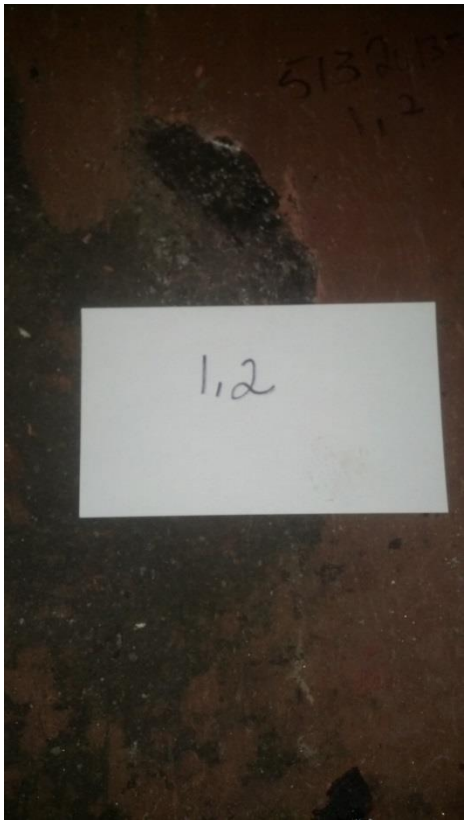
Photo Log
1875 Atlantic Avenue
Brooklyn, New York

View Of South Entrance

View Of Southwest vacant lot

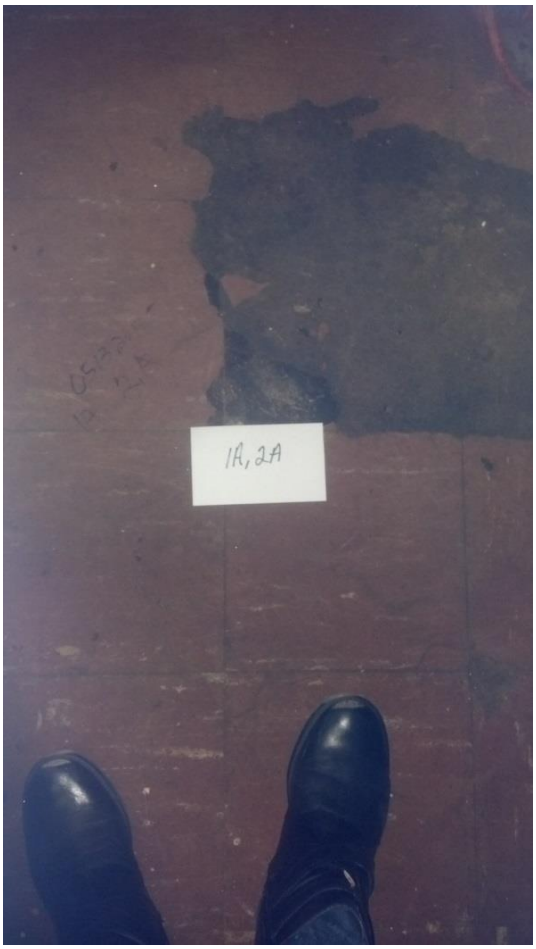


View Of South entrance hallway



Front Lobby-9x9 Maroon tiles and mastic

Front Lobby-9x9 Maroon tiles and mastic



Front Lobby-9x9 Maroon tiles and mastic

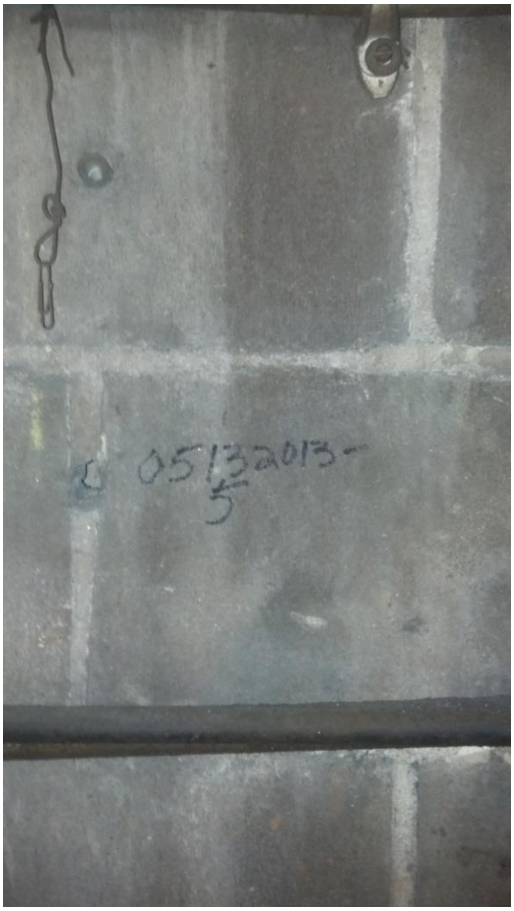
Office-9x9 Black speckled tile

Hallway outside Boiler Room-Aircell pipe insulation

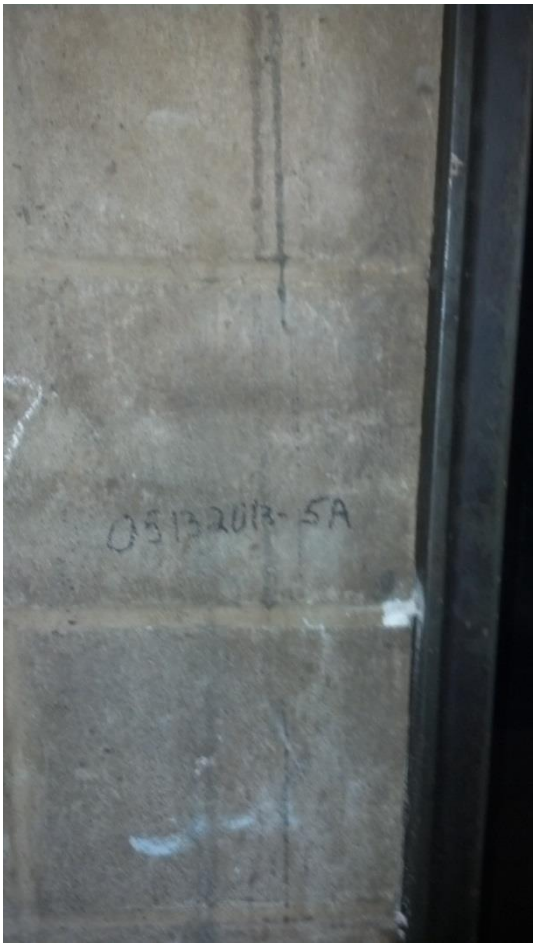
Boiler Room-Aircell pipe insulation

Boiler Room-Aircell pipe insulation

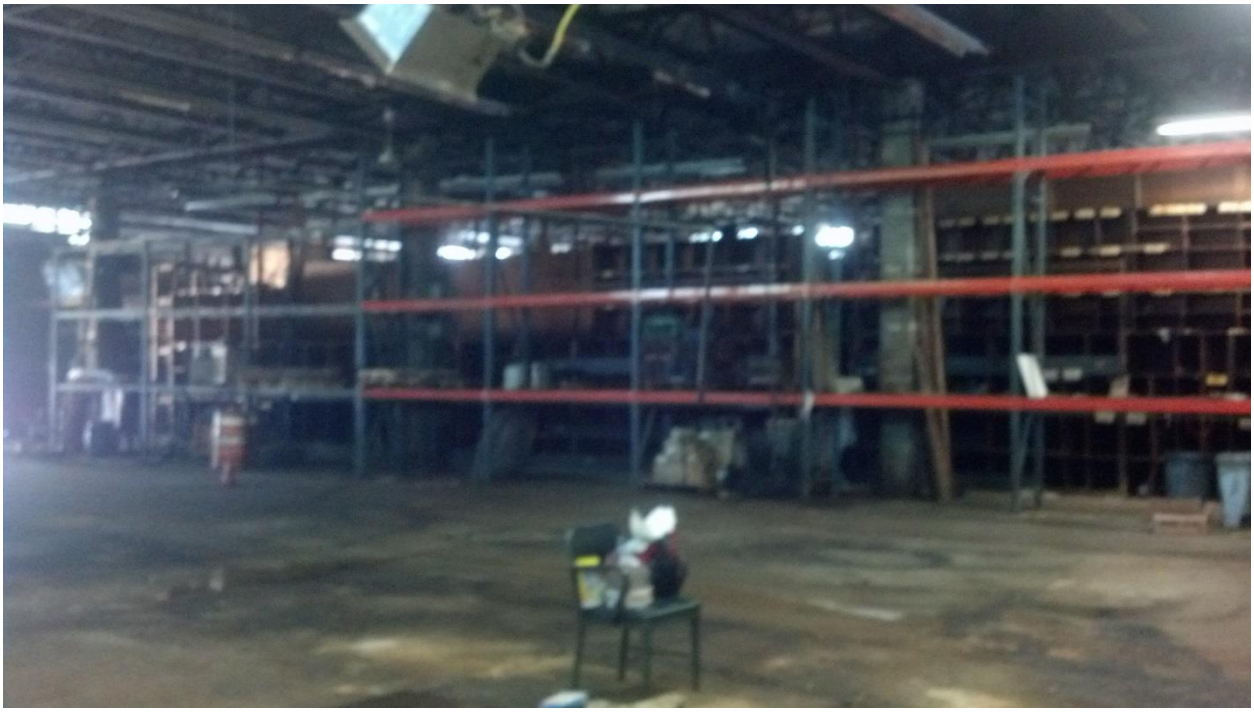
Boiler Room-Aircell pipe insulation



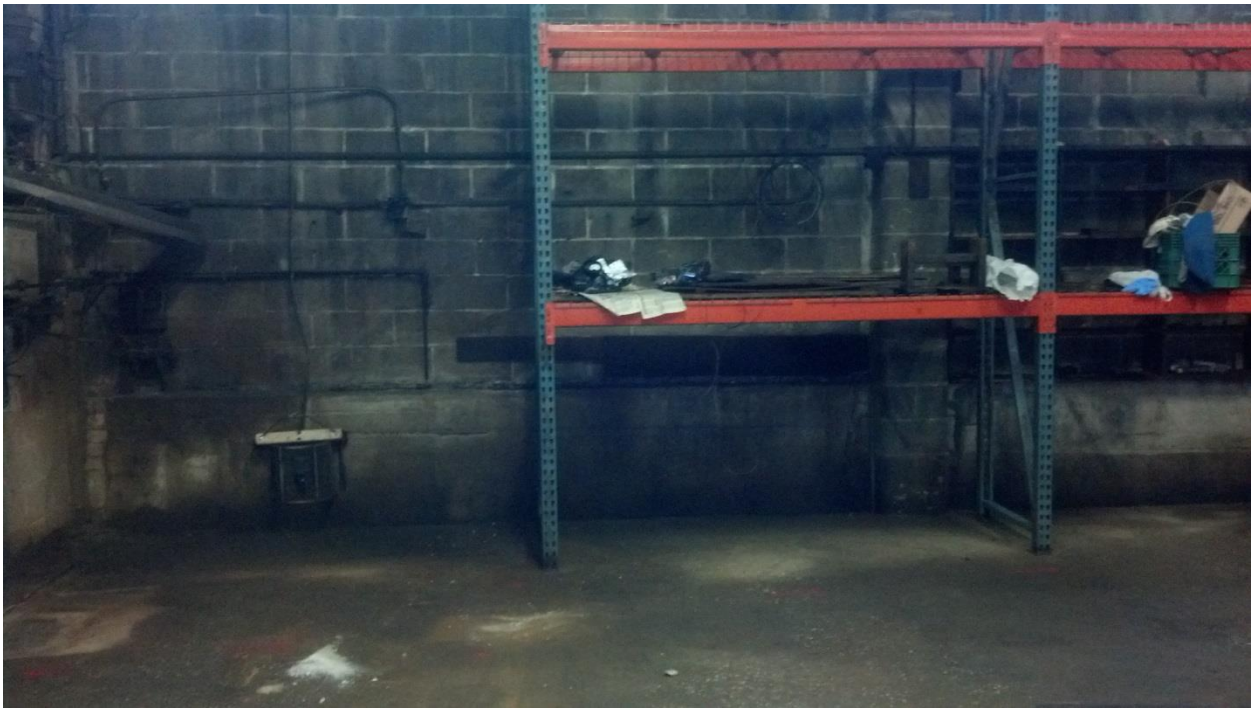
Parts Storage Room East Wall-Concrete mortar



Parts Storage Room South Wall-Concrete mortar



Part Storage Room



Parts Storage Room

Parts Storage Room

Electrical Panel-Braided wire insulation

Assumed ACM

Machinery area-Transite board- Assumed ACM

Machinery area-Transite board- Assumed ACM

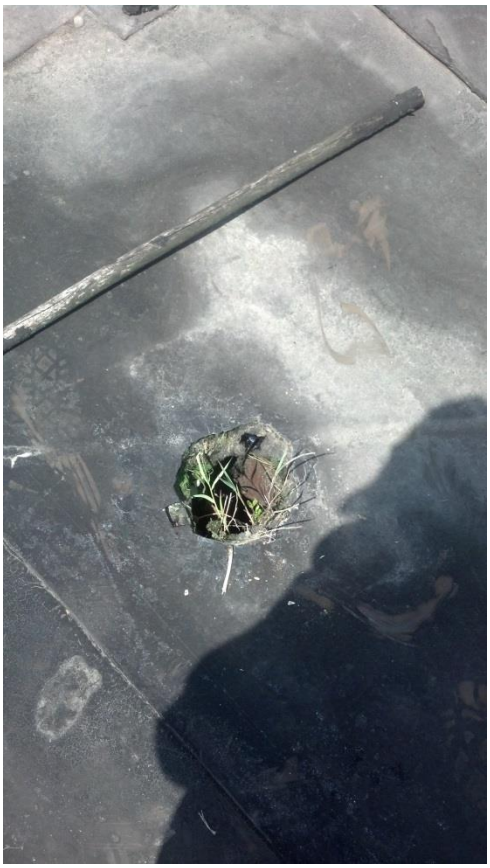
2nd Floor Offices-12X12 White speckled tile

2nd Floor Bathroom-9X9 pink tiles and mastic

2nd Floor Office Ceiling Tile

2nd Floor Office Ceiling Tile

Roof Paper & Tar – Samples 10 & 10A



Roof Paper & Tar – Samples 10B &10C

Parts Storage Area-Windows appear glazed

No Access-Assume ACM

Roof Paper & Tar – Samples 10D &10E

APPENDIX E

LAWRENCE
ENVIRONMENTAL GROUP, LLC

PROJECT:
XRF Lead Inspection

Location:
1875 Atlantic Avenue
Brooklyn, NY 11233

Report Prepared for:
Atlantic Columbus L.P.
c/o Dunn Development
316 Douglass Street 2nd Floor
Brooklyn, NY 11217

Prepared by:
Lawrence Environmental Group LLC.
350 Lexington Avenue
12th Floor PH
New York, NY 10016-1723
License #NY-11751-3

Project # MISRES L027

Date of Survey:
May 14, 2013

Date of Issue:
May 21, 2013

TABLE OF CONTENTS

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II.	Regulatory Jurisdiction	3
III.	Description of Testing Device	3
IV.	Inspection Methodology	4
V.	Results	4
VI.	Recommendations	5

APPENDICES 6

A. Lead Paint Inspection Report
B. Diagrams
C. EPA Certificates

Disclaimer / Disclosure

I. PURPOSE

Greg Collins Environmental (GCE) was retained by the Atlantic Columbus L.P. to conduct a Lead-Based Paint Inspection in the warehouse located at 1875 Atlantic Avenue, Brooklyn, NY 11217. This inspection occurred on May 14, 2013. This testing was conducted using methodologies specified in Chapter 7 of US EPA/Department of Housing and Urban Development (HUD) Technical Guidelines for The Evaluation and Control of Lead-Based Paint Hazards in Housing.

II. REGULATORY JURISDICTION

The subject property is located in the borough of Brooklyn in New York City. Because the construction date of this commercial property is prior to 1978 it is recommended that EPA Lead-based Paint Repair, Renovation & Painting Program guidelines, which requires that certified contractors employ lead-safe work practices whenever six square feet or more of a painted surface will be disturbed, be followed.

III. DESCRIPTION OF TESTING DEVICE

The Lead-Based Paint inspection was conducted using the portable RMD LPA-1B X-ray fluorescence spectrometer (XRF). The LPA-1B is a complete lead paint analysis system that quickly, accurately, and nondestructively measures the concentration of lead-based paint on surfaces. The LPA-1B method of measurement is based on the spectrometric analysis of lead K-shell X-ray fluorescence within a controlled depth (3/8") of interrogation. The controlled depth concept used in the design of the LPA-1B restricts the penetration of the energetic K-shell X-rays into the substrate so that the system cannot be misled by the presence of lead pipes or other objects located deep in a wall. The LPA-1B analyzer is able to make a variable time measurement with a 95% confidence level based on the regulatory action level.

As a quality control measure, before and after each inspection, a system performance check of the LPA-1B is performed. This is done by taking three readings on the Calibration Test Block and one on a lead free block in "time-correction" or "standard" mode. If the lead readings are outside the correct range, RMD is contacted for instructions to bring the LPA-1B into calibration. The LPA-1B automatically conducts system calibration checks as the device is used.

During the inspection, the LPA-1B is used in the "quick" mode setting. The **abatement level** of the LPA-1B is set at the current HUD/EPA/New York State/New York City Limit of greater than or equal to **1.0 mg/cm^2** (1 milligram of lead per square centimeter).

The result of any measurement made in “Quick” mode displays one of the following readouts: 1.) Positive lead level; 2.) Negative lead level; or 3.) Inconclusive result. Positive results are displayed as any measurement above the abatement level. Negative results are displayed as a measurement below the abatement level. Inconclusive results occur where the measured lead level is too close to the action level to reach a determination in 60 seconds.

IV. INSPECTION METHODOLOGY

Before surfaces are tested, a floor plan of the building is produced. The walls of the building are designated as A, B, C, and D. In all rooms, wall “A” is the side of the room where the door or entry to the room is located. The B, C, and D walls are in clockwise order from wall “A”. Closets, windows and door openings are indicated as left, center, or right based on their location on the wall.

Next, room surfaces are selected for testing by room equivalent, component, and substrate.

Quality control tests, in the “time corrected” mode, are performed on the LPA-1B and the testing of the surfaces proceeds in “quick” mode. Quality control checks are performed on the LPA-1B at the conclusion of the inspection or after every 4 hours of usage.

If an LPA-1B result is inconclusive, management is contacted for permission to take a paint chip sample of the surface.

The inspection is conducted in accordance with US Department of Housing and Urban Development, “Guidelines for The Evaluation and Control of Lead-Based Paint Hazards in Housing”, Chapter 7; Lead-based paint Inspection, 2012 Revision. As with all guidelines, these are minimum requirements and are open to interpretation in their practical implementation. The scope of this inspection exceeds the HUD requirements. Lawrence Environmental Group believes it is in the best interest of the client to utilize a conservative and thorough approach to lead inspections. The benefit of this approach serves to reduce the risk and liability to the client while meeting the public health intent of the law.

V. RESULTS

A total of 70 measurements and 6 calibration readings were collected on the interior of the warehouse, and a total of 6 measurements and 6 calibrations were collected with the RMD LPA-1B. Detailed and summary results are found in Appendix A of this report. A list of measurements that were found to contain levels of lead greater than or equal to the **1.0 mg/cm^2 abatement level mandated by HUD/EPA/New York State/New York City** are listed in Table 1. All readings correspond to a location which can be ascertained from Appendix A.

Wall locations (labeled wall A, wall B, wall C, and wall D) are shown on the drawing provided located in Appendix B.

Notes

The offices on the 1st floor and 2nd floor walls consist of uncoated gypsum walls, covered by uncoated wood paneling. Four (4) walls were examined to ensure there are no lead based paint hazards, as well as lifting the panels to ensure the walls were not coated under the wood.

Table 1 – List of Positive Measurements

Location	Substrate/Color	Reading #	Lead Concentration (mg/cm^2)
Foyer - Ladder to Roof - Tread	Metal/Beige	012	4.6
Foyer - Ladder to Roof - Railing Cap	Metal/Beige	013	1.0
Foyer - Ladder to Roof - Stringer	Metal/Beige	014	1.8
Main Warehouse – Dumbwaiter Door	Lead / No Coat	055	>9.9

Based on the above findings and visual observation it is presumed that the following surfaces met the definition of lead based paint:

- 2nd level of First Foyer at entrance Ladder (including the tread, stringer and railings.
- The Main Warehouse "B" Wall/South Wall Dumbwaiter Door (no frame or casing on door)

VI. RECOMMENDATIONS

Lead safe work practices, such as the EPA Renovator, Repair and Painting Program (RRP), should be followed when disturbing the paint on the 2nd Level of First Foyer entrance ladder and the Main Warehouse "B" Wall/South Wall Dumbwaiter Door.

Due to the building being demolished it is recommended that the entrance ladder and door be removed prior.

APPENDICES

APPENDIX A

Lead Paint Inspection Report

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 05/14/13 09:48

INSPECTION FOR: Atlantic Columbus L.P.
C/O Dunn Development Corp
316 Douglass Street 2nd Floor
Brooklyn NY 11217

PERFORMED AT: 1875 Atlantic Avenue
Brooklyn, NY 11217

INSPECTION DATE: 05/14/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2586

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: NY-I-128627-2

SIGNED: _____ Date: 5/17/13

Erik Warda
NY-I-128627-2

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Atlantic Columbus L.P.

Inspection Date:	05/14/13	1875 Atlantic Avenue
Report Date:	5/17/2013	Brooklyn, NY
Abatement Level:	1.0	
Report No.	05/14/13 09:48	
Total Readings:	76	
Job Started:	05/14/13 09:48	
Job Finished:	05/14/13 10:50	

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								1.0	TC
2		CALIBRATION								1.0	TC
3		CALIBRATION								-0.2	TC
4	001	Foyer	A	Wall	U Ctr		I	Brick	Beige	-0.4	QM
5	001	Foyer	B	Wall	U Ctr		I	CemntBlock	Beige	0.0	QM
6	001	Foyer	C	Wall	U Ctr		I	CemntBlock	Beige	-0.3	QM
7	001	Foyer	D	Wall	U Ctr		I	CemntBlock	Beige	-0.3	QM
8	001	Foyer	A	Ceiling			I	Cement	Beige	0.1	QM
9	001	Foyer	D	Stairs	Ctr	Railing cap	I	Metal	Beige	-0.5	QM
10	001	Foyer	D	Stairs	Ctr	Stringer	I	Metal	Beige	-0.3	QM
11	001	Foyer	D	Stairs	Ctr	Newel post	I	Metal	Beige	-0.3	QM
12	001	Foyer	D	Stairs	Ctr	Treads	I	Metal	Beige	4.6	QM
		Shots 12-14 are colected from the 2nd Fl. ladder									
13	001	Foyer	D	Stairs	Ctr	Railing cap	I	Metal	Beige	1.0	QM
14	001	Foyer	D	Stairs	Ctr	Stringer	I	Metal	Beige	1.8	QM
15	001	Foyer	B	Door	Ctr	U Ctr	I	Metal	Red	0.3	QM
16	001	Foyer	B	Door	Ctr	Lft casing	I	Metal	Brown	-0.3	QM
17	001	Foyer	B	Door	Ctr	Lft jamb	I	Metal	Brown	-0.2	QM
18	001	Foyer	B	Door	Ctr	Header	I	Metal	Brown	-0.2	QM
19	001	Foyer	C	Door	Ctr	Lft casing	I	Metal	Brown	0.6	QM
20	001	Foyer	C	Door	Ctr	Lft jamb	I	Metal	Brown	-0.2	QM
21	001	Foyer	C	Door	Ctr	Header	I	Metal	Brown	-0.4	QM
22	001	Foyer	C	Door	Ctr	U Ctr	I	Metal	Red	0.0	QM
23	001	Foyer	B	Pipe Riser	Ctr		I	Metal	Beige	-0.5	QM
		Over Head									
24	001	Foyer	D	Underpan	Ctr		I	Metal	Beige	-0.4	QM
		Stair Underpan									
25	002	1stFlOffice	A	Wall	U Ctr		I	Drywall	Beige	-0.1	QM
		All walls are uncoated wood paneling in office									
26	002	1stFlOffice	B	Wall	U Ctr		I	Brick	Beige	-0.4	QM
27	002	1stFlOffice	C	Wall	U Ctr		I	Drywall	Beige	-0.3	QM
28	002	1stFlOffice	D	Wall	U Ctr		I	Drywall	Beige	-0.3	QM
29	002	1stFlOffice	D	Ceiling			I	Cement	Beige	-0.6	QM
30	002	1stFlOffice	A	Door	Lft	Lft casing	I	Metal	Brown	-0.3	QM
31	002	1stFlOffice	A	Door	Lft	Lft jamb	I	Metal	Brown	-0.9	QM
32	002	1stFlOffice	A	Door	Lft	Header	I	Metal	Brown	-0.1	QM
33	002	1stFlOffice	B	Window	Ctr	Lft casing	I	Wood	Varnish	-0.4	QM
34	002	1stFlOffice	B	Window	Ctr	Rgt casing	I	Wood	Varnish	-0.2	QM
35	002	1stFlOffice	D	Window	Ctr	Lft casing	I	Wood	Varnish	-0.4	QM
36	002	1stFlOffice	D	Window	Ctr	Rgt casing	I	Wood	Varnish	-0.5	QM
37	002	1stFlOffice	B	WallBeam	Ctr		I	Cement	Beige	-0.6	QM
38	002	1stFlOffice	B	CeilingBeam	Ctr		I	Cement	Beige	-0.2	QM
39	003	2ndFoyer	A	Wall	U Ctr		I	Cement	Beige	-0.5	QM
40	003	2ndFoyer	B	Wall	U Ctr		I	Cement	Green	-0.5	QM
41	003	2ndFoyer	C	Wall	U Ctr		I	Cement	Green	-0.7	QM
42	003	2ndFoyer	D	Wall	U Ctr		I	Cement	Green	-0.8	QM
43	003	2ndFoyer	C	Ceiling			I	Cement	Green	-0.6	QM

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Atlantic Columbus L.P.

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
44	003	2ndFoyer	D	Stairs	Ctr	Risers	I	Metal	Grey	-0.5	QM
45	003	2ndFoyer	D	Stairs	Ctr	Railing cap	I	Metal	Beige	0.4	QM
46	003	2ndFoyer	D	Stairs	Ctr	Stringer	I	Metal	Beige	-0.6	QM
47	003	2ndFoyer	D	Stairs	Ctr	Newel post	I	Metal	Beige	-0.6	QM
48	003	2ndFoyer	B	Door	Ctr	U Ctr	I	Metal	Green	-0.4	QM
49	003	2ndFoyer	B	Door	Ctr	Lft casing	I	Metal	Green	-0.5	QM
50	003	2ndFoyer	B	Door	Ctr	Header	I	Metal	Green	-0.3	QM
51	003	2ndFoyer	B	Door	Ctr	U Ctr	I	Metal	Green	-0.5	QM
52	003	2ndFoyer	B	Door	Ctr	Lft casing	I	Metal	Green	-0.2	QM
53	003	2ndFoyer	B	Door	Ctr	Header	I	Metal	Green	-0.4	QM
		Both doors were sealed shut.									
54	003	2ndFoyer	A	Floor			I	Concrete	Grey	-0.3	QM
55	004	Warehouse	B	Door	Ctr	U Ctr	I	Lead	N/A	>9.9	QM
56	005	2ndFlOffice	A	Wall	U Ctr		I	CemntBlock	Beige	-1.2	QM
57	005	2ndFlOffice	B	Wall	U Ctr		I	CemntBlock	Beige	-1.3	QM
58	005	2ndFlOffice	C	Wall	U Ctr		I	CemntBlock	Beige	-0.6	QM
59	005	2ndFlOffice	D	Wall	U Ctr		I	CemntBlock	Beige	-0.8	QM
60	005	2ndFlOffice	D	Door	Lft	U Ctr	I	Metal	Grey	-1.0	QM
61	005	2ndFlOffice	D	Door	Lft	Lft casing	I	Metal	Grey	-0.5	QM
62	005	2ndFlOffice	D	Door	Lft	Lft jamb	I	Metal	Grey	-1.1	QM
63	005	2ndFlOffice	D	Door	Lft	Header	I	Metal	Grey	-0.7	QM
64	005	2ndFlOffice	B	Window	Lft	Sash	I	Metal	Grey	-0.5	QM
65	005	2ndFlOffice	B	Window	Lft	Sash	I	Metal	Grey	-0.4	QM
66	005	2ndFlOffice	B	Window	Lft	Sash	I	Metal	Grey	-0.2	QM
67	005	2ndFlOffice	B	CeilingBeam	Lft		I	Cement	Beige	-0.4	QM
68	005	2ndFlOffice	B	WallBeam	Lft		I	Cement	Beige	-0.3	QM
69	006	LockerRm	A	Wall	U Ctr		I	Cement	Beige	-0.8	QM
		Locker Room On 2nd Floor									
70	006	LockerRm	B	Wall	U Ctr		I	Cement	Beige	-0.5	QM
71	006	LockerRm	C	Wall	U Ctr		I	Cement	Beige	-0.3	QM
72	006	LockerRm	D	Wall	U Ctr		I	Cement	Beige	0.0	QM
73	006	LockerRm	D	Ceiling			I	Cement	Beige	-0.3	QM
74		CALIBRATION								1.0	TC
75		CALIBRATION								1.0	TC
76		CALIBRATION								0.1	TC

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Atlantic Columbus L.P.

Inspection Date:	05/14/13	1875 Atlantic Avenue
Report Date:	5/17/2013	Brooklyn, NY
Abatement Level:	1.0	
Report No.	05/14/13 09:48	
Total Readings:	76	
Job Started:	05/14/13 09:48	
Job Finished:	05/14/13 10:50	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Interior Room 001 Foyer									
004	A	Wall	U Ctr		I	Brick	Beige	-0.4	QM
008	A	Ceiling			I	Cement	Beige	0.1	QM
005	B	Wall	U Ctr		I	CemntBlock	Beige	0.0	QM
018	B	Door	Ctr	Header	I	Metal	Brown	-0.2	QM
016	B	Door	Ctr	Lft casing	I	Metal	Brown	-0.3	QM
017	B	Door	Ctr	Lft jamb	I	Metal	Brown	-0.2	QM
015	B	Door	Ctr	U Ctr	I	Metal	Red	0.3	QM
023	B	Pipe Riser	Ctr		I	Metal	Beige	-0.5	QM
	Over Head								
006	C	Wall	U Ctr		I	CemntBlock	Beige	-0.3	QM
021	C	Door	Ctr	Header	I	Metal	Brown	-0.4	QM
019	C	Door	Ctr	Lft casing	I	Metal	Brown	0.6	QM
020	C	Door	Ctr	Lft jamb	I	Metal	Brown	-0.2	QM
022	C	Door	Ctr	U Ctr	I	Metal	Red	0.0	QM
007	D	Wall	U Ctr		I	CemntBlock	Beige	-0.3	QM
012	D	Stairs	Ctr	Treads	I	Metal	Beige	4.6	QM
	Shots 12-14 are colected from the 2nd Fl. ladder								
011	D	Stairs	Ctr	Newel post	I	Metal	Beige	-0.3	QM
010	D	Stairs	Ctr	Stringer	I	Metal	Beige	-0.3	QM
014	D	Stairs	Ctr	Stringer	I	Metal	Beige	1.8	QM
009	D	Stairs	Ctr	Railing cap	I	Metal	Beige	-0.5	QM
013	D	Stairs	Ctr	Railing cap	I	Metal	Beige	1.0	QM
024	D	Underpan	Ctr		I	Metal	Beige	-0.4	QM
	Stair Underpan								
Interior Room 002 1stFlOffice									
025	A	Wall	U Ctr		I	Drywall	Beige	-0.1	QM
	All walls are uncoated wood paneling in office								
032	A	Door	Lft	Header	I	Metal	Brown	-0.1	QM
030	A	Door	Lft	Lft casing	I	Metal	Brown	-0.3	QM
031	A	Door	Lft	Lft jamb	I	Metal	Brown	-0.9	QM
026	B	Wall	U Ctr		I	Brick	Beige	-0.4	QM
034	B	Window	Ctr	Rgt casing	I	Wood	Varnish	-0.2	QM
033	B	Window	Ctr	Lft casing	I	Wood	Varnish	-0.4	QM
037	B	WallBeam	Ctr		I	Cement	Beige	-0.6	QM
038	B	CeilingBeam	Ctr		I	Cement	Beige	-0.2	QM
027	C	Wall	U Ctr		I	Drywall	Beige	-0.3	QM
028	D	Wall	U Ctr		I	Drywall	Beige	-0.3	QM
029	D	Ceiling			I	Cement	Beige	-0.6	QM
036	D	Window	Ctr	Rgt casing	I	Wood	Varnish	-0.5	QM
035	D	Window	Ctr	Lft casing	I	Wood	Varnish	-0.4	QM
Interior Room 003 2ndFoyer									
039	A	Wall	U Ctr		I	Cement	Beige	-0.5	QM
054	A	Floor			I	Concrete	Grey	-0.3	QM
040	B	Wall	U Ctr		I	Cement	Green	-0.5	QM
050	B	Door	Ctr	Header	I	Metal	Green	-0.3	QM
053	B	Door	Ctr	Header	I	Metal	Green	-0.4	QM
	Both doors were sealed shut.								

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Atlantic Columbus L.P.

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
049	B	Door	Ctr	Lft casing	I	Metal	Green	-0.5	QM
052	B	Door	Ctr	Lft casing	I	Metal	Green	-0.2	QM
048	B	Door	Ctr	U Ctr	I	Metal	Green	-0.4	QM
051	B	Door	Ctr	U Ctr	I	Metal	Green	-0.5	QM
041	C	Wall	U Ctr		I	Cement	Green	-0.7	QM
043	C	Ceiling			I	Cement	Green	-0.6	QM
042	D	Wall	U Ctr		I	Cement	Green	-0.8	QM
044	D	Stairs	Ctr	Risers	I	Metal	Grey	-0.5	QM
047	D	Stairs	Ctr	Newel post	I	Metal	Beige	-0.6	QM
046	D	Stairs	Ctr	Stringer	I	Metal	Beige	-0.6	QM
045	D	Stairs	Ctr	Railing cap	I	Metal	Beige	0.4	QM
Interior Room 004 Warehouse									
055	B	Door	Ctr	U Ctr	I	Lead	N/A	>9.9	QM
Interior Room 005 2ndFlOffice									
056	A	Wall	U Ctr		I	CemntBlock	Beige	-1.2	QM
057	B	Wall	U Ctr		I	CemntBlock	Beige	-1.3	QM
064	B	Window	Lft	Sash	I	Metal	Grey	-0.5	QM
065	B	Window	Lft	Sash	I	Metal	Grey	-0.4	QM
066	B	Window	Lft	Sash	I	Metal	Grey	-0.2	QM
067	B	CeilingBeam	Lft		I	Cement	Beige	-0.4	QM
068	B	WallBeam	Lft		I	Cement	Beige	-0.3	QM
058	C	Wall	U Ctr		I	CemntBlock	Beige	-0.6	QM
059	D	Wall	U Ctr		I	CemntBlock	Beige	-0.8	QM
063	D	Door	Lft	Header	I	Metal	Grey	-0.7	QM
061	D	Door	Lft	Lft casing	I	Metal	Grey	-0.5	QM
062	D	Door	Lft	Lft jamb	I	Metal	Grey	-1.1	QM
060	D	Door	Lft	U Ctr	I	Metal	Grey	-1.0	QM
Interior Room 006 LockerRm									
069	A	Wall	U Ctr		I	Cement	Beige	-0.8	QM
	Locker Room On 2nd Floor								
070	B	Wall	U Ctr		I	Cement	Beige	-0.5	QM
071	C	Wall	U Ctr		I	Cement	Beige	-0.3	QM
072	D	Wall	U Ctr		I	Cement	Beige	0.0	QM
073	D	Ceiling			I	Cement	Beige	-0.3	QM
Calibration Readings									
001								1.0	TC
002								1.0	TC
003								-0.2	TC
074								1.0	TC
075								1.0	TC
076								0.1	TC

---- End of Readings ----

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 05/14/13 10:51

INSPECTION FOR: Atlantic Columbus L.P.
C/O Dunn Development
316 Douglass Street 2nd Floor
Brooklyn, NY 11217

PERFORMED AT: 1875 Atlantic Avenue
Brooklyn, NY 11217

INSPECTION DATE: 05/14/13

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 2586

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: NY-I-128627-2

SIGNED: Erik Warda

Date: 5/17/13

Erik Warda
NY-I-128627-2

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Atlantic Columbus L.P.

Inspection Date:	05/14/13	1875 Atlantic Avenue
Report Date:	5/17/2013	Brooklyn, NY 11217
Abatement Level:	1.0	
Report No.	05/14/13 10:51	
Total Readings:	12	
Job Started:	05/14/13 10:51	
Job Finished:	05/14/13 11:04	

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								0.8	TC
2		CALIBRATION								0.8	TC
3		CALIBRATION								-0.2	TC
4	001	Side A	A	Wall	U	Lft	I	Brick	Red	-0.9	QM
5	001	Side A	A	Window		Lft Sill	I	Brick	Red	-0.7	QM
6	001	Side A	A	Window		Lft Sill	I	Brick	Red	-0.7	QM
7	001	Side A	A	Door		Lft U Ctr	I	Metal	Red	-0.2	QM
8	001	Side A	A	Door		Lft Lft casing	I	Metal	Red	0.4	QM
9	002	Side D	D	Wall	U	Ctr	I	Brick	Red	-0.5	QM
10		CALIBRATION								0.8	TC
11		CALIBRATION								0.8	TC
12		CALIBRATION								-0.2	TC

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Atlantic Columbus L.P.

Inspection Date:	05/14/13	1875 Atlantic Avenue
Report Date:	5/17/2013	Brooklyn, NY 11217
Abatement Level:	1.0	
Report No.	05/14/13 10:51	
Total Readings:	12	
Job Started:	05/14/13 10:51	
Job Finished:	05/14/13 11:04	

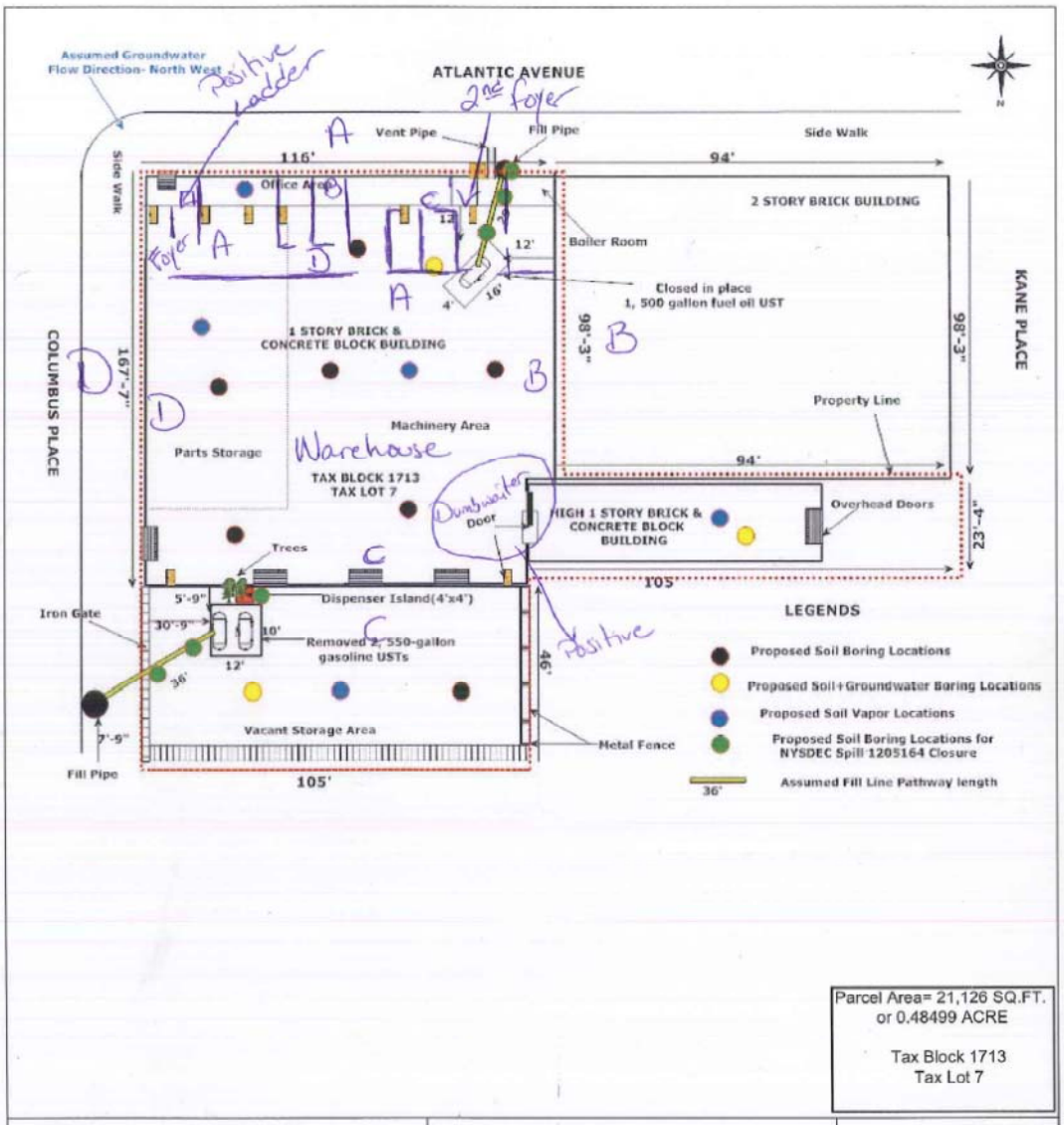
Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Side A									
004	A	Wall	U Lft		I	Brick	Red	-0.9	QM
005	A	Window	Lft	Sill	I	Brick	Red	-0.7	QM
006	A	Window	Lft	Sill	I	Brick	Red	-0.7	QM
008	A	Door	Lft	Lft casing	I	Metal	Red	0.4	QM
007	A	Door	Lft	U Ctr	I	Metal	Red	-0.2	QM
Exterior Room 002 Side D									
009	D	Wall	U Ctr		I	Brick	Red	-0.5	QM
Calibration Readings									
001								0.8	TC
002								0.8	TC
003								-0.2	TC
010								0.8	TC
011								0.8	TC
012								-0.2	TC

---- End of Readings ----

1

APPENDIX B

Diagrams



Parcel Area= 21,126 SQ.FT. or 0.48499 ACRE

Tax Block 1713
Tax Lot 7

G. C. ENVIRONMENTAL, INC.
CONSULTANTS CONTRACTORS

22 OAK STREET
BAY SHORE, NEW YORK 11706

TEL: (631) 206-3700
FAX: (631) 206-3729

SITE PLAN (SAMPLING MAP)

1875 ATLANTIC AVENUE
BROOKLYN, NY 11233

GCE PROJECT NO.: 13-023-00

FIGURE 2

SITE PLAN

Parcel Area= 21,126 SQ.FT. or 0.48499 ACRE

0 35
SCALE: 1"= 35'

APPENDIX C

EPA Certificates

United States Environmental Protection Agency

This is to certify that

Lawrence Environmental Group, L.L.C.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires July 21, 2014

NY-11751-3

Certification #

APR 19 2011

Issued On

Dennis J. McChesney, Ph.D., MBA, Acting Chief

Pesticides & Toxic Substances Branch

United States Environmental Protection Agency

This is to certify that

Erik P Warda

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as a:

Inspector

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires May 8, 2016

NY-I-28627-2

Certification #

MAY 0 1 2013

Issued On

John Gorman, Chief

Pesticides & Toxic Substances Branch

Disclaimer / Disclosure

DISCLAIMER

The opinions expressed in this document are based solely on the scope of work conducted and sources referred to therein. The presented data was collected and analyzed using accepted industry methods, procedures and practices in effect at the time this report was generated. This report represents the levels of lead based paint in the tested surfaces at the time of sampling.

No inferences regarding other conditions, locations or materials at a later or earlier time may be made based on the contents of this report. No other warranty, express or limited is made. Lawrence Environmental Group's liability and that of its contractors and subcontractors, arising from any services rendered hereunder, shall not exceed the total fee paid by the client to Lawrence Environmental Group for this project. This report was prepared for the sole use of our client. The use of this report by anyone other than our client or Lawrence Environmental Group is strictly prohibited without the expressed written consent of Lawrence Environmental Group. Portions of this report may not be used independent of the entire report.

Unless specified otherwise, Lawrence Environmental Group does not have access to any Lead Based Paint Inspection or Lead Based Paint Risk Assessment reports performed by others prior to this testing. The report attached hereto relates only to those areas required to be tested according to HUD Guidelines or areas specifically requested to be tested by the client/customer, and actually tested. The report does not and could not exclude the possibility of the presence of lead in any area where a lead test was not performed. When a component is tested in a particular room, the report assumes that the one component represents all corresponding like components in that particular room. Lead testing results can only be applicable at the time and under the circumstances that the testing was conducted and lead testing results are applicable for the condition of surfaces at that time.

Should there be any change in the condition of the surfaces tested, which takes place after the time of the inspection, and/or should there be any work done in any area, and such event may result in a change in circumstances and results, Lawrence Environmental Group should be contacted for subsequent testing after any remedial work has been undertaken and completed, or in the event that any other change in circumstances or surfaces of the Inspected area have taken place.

Should remediation work be undertaken consisting of less than total removal of a component or structure with lead based paint, such as encapsulating areas showing positive inspection or assessment results, a subsequent investigation is recommended to insure that the remediation work has been successful. After encapsulation, any change in the surface or any subsequent painting of, or work done to any friction surface may result in the deterioration of the encapsulant and the possible exposure of underlying lead based paint. It is recommended that follow-up lead tests should be required to be made by Lawrence Environmental Group prior to repainting or after any change in the surface of friction areas.

DISCLOSURE

A copy of this report must be provided to new lessees (tenants) and purchasers of this property under Federal Law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

APPENDIX F

LIMITATIONS AND SERVICES CONSTRAINTS

Limitations

The findings set forth in the attached environmental site assessment report are strictly limited in time and scope to the date of the evaluation(s). The conclusions presented in the report are based on the services described in the report, and not on scientific tasks or procedures beyond the scope of work agreed in the purchase order/work order prior to the initialization of this assessment or the time and budgeting restraints imposed by the client.

This report may contain recommendations which are partially based on the analysis of data accumulated at the time and locations set forth in the report through the subsurface investigation. However, environmental, geological, and geotechnical conditions can vary from those encountered during this investigation, and that the limitation on available data results in some level of uncertainty with respect to the interpretation of these conditions, despite the use of standard professional care and skill. Therefore, further investigations may reveal additional data or variations of the current data which may require the enclosed recommendations to be reevaluated.

Chemical analyses may have been performed for specific parameters during the course of this assessment, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the subject site.

Partial findings of this assessment are based on data provided by others. No warranty is expressed or implied with the usage of such data.

Because of these limitations, full and complete determination as to whether a certain piece of land is or is not free from environmental contamination cannot be made. The extent of testing and statistical confidence associated with an environmental site assessment is balanced against a reasonable project budget, therefore, 100 percent confidence in environmental site assessment conclusions can never be reached. Therefore, G. C. Environmental, Inc. does not provide guarantees, certifications, or warranties that a property is free from environmental contamination.

Services Constraints

Much of the information provided in this report is based upon personal interviews and research of all practically reviewable documents, records, and maps held by appropriate government and private agencies. This is subject to limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollection of those persons contacted. The initial site-investigation took into account the natural and man-made features of the subject site, including any unusual or suspect phenomenon. These factors, combined with the subject site's geology, hydrology, topography, and past and present land uses served as a basis for choosing a methodology and location for subsurface investigation as well as soil and/or groundwater sampling, if conducted. The analytical results of the subsurface investigation, if provided, are meant as a representative overview of the subject site's conditions.

The locations and type of analyses of soil and /or groundwater samples, if provided, were chosen based on the same considerations listed in the paragraphs above. If samples were analyzed, they were analyzed for those parameters unique to the subject site as determined during the preceding site-evaluation.

The presence of radioactive materials or wastes, biological hazards, asbestos or lead-based paint was not investigated unless specifically noted otherwise.

This report was prepared for the exclusive use of the client and/or the parties listed on the cover of the report, and is intended for the use listed in a proposal/work order or a Consulting Services Agreement signed prior to initiation of the assessment. The use of this report by any other parties or in any other manner than that listed in a proposal/work order or a Consulting Services Agreement signed prior to initiation of the assessment requires the written consent of G. C. Environmental, Inc. This report must be presented in its entirety.