HENRY PHIPPS PLAZA SOUTH (PARCEL 1)
325 EAST 25TH STREET (BLOCK 931, LOT 17)
MANHATTAN, NEW YORK
NYCOER PROJECT 14RHAZ082M

REMEDIAL INVESTIGATION REPORT

SUBMITTED TO:

New York City Office of Environmental Remediation
E-Designation Program
253 Broadway, 14th Floor
New York, New York 10007

PREPARED FOR:

Henry Phipps Plaza South HDFC
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PWGC Project Number: PHG1301

SEPTEMBER 2013

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NYCOER Site Number: 14RHAZ082M

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September 2013

REMEDIAL INVESTIGATION REPORT
TABLE OF CONTENTS

CERTIFICATION 1
EXECUTIVE SUMMARY 2
REMEDIAL INVESTIGATION REPORT 6
1.0 SITE BACKGROUND 6
1.1 Site Location and Current Usage 6
1.2 Proposed Redevelopment Plan 6
1.3 Description of Surrounding Property 7
2.0 SITE HISTORY 8
2.1 Past Uses and Ownership 8
2.2 Previous Investigations 9
2.3 Site Inspection 10
2.4 Areas of Concern 10
3.0 PROJECT MANAGEMENT 11
3.1 Project Organization 11
3.2 Health and Safety 11
3.3 Materials Management 11
4.0 REMEDIAL INVESTIGATION ACTIVITIES 12
4.1 Geophysical Investigation 12
4.2 Borings and Monitoring Wells 12
4.3 Sample Collection and Chemical Analysis 13
5.0 ENVIRONMENTAL EVALUATION 17
5.1 Geological and Hydrogeological Conditions 17
5.2 Soil Chemistry 17
5.3 Groundwater Chemistry 18
5.4 Soil Vapor Chemistry 19
5.5 Prior Activity 19
5.6 Impediments to Remedial Action 19

FIGURES

Figure 1 Vicinity Map

Figure 2 Site Plan

Figure 3 Surrounding Land Usage

Figure 4 Sample Locations

Figure 5 Soil Data

Figure 6 Groundwater Data

TABLES

Table 1 Soil Sample Analytical Data – Volatile Organic Compounds

Table 2 Soil Sample Analytical Data – Semi-Volatile Organic Compounds

Table 3 Soil Sample Analytical Data – Pesticides and PCBs

Table 4 Soil Sample Analytical Data – Total Metals

Table 5 Groundwater Sample Analytical Data – Volatile Organic Compounds

Table 6 Groundwater Sample Analytical Data – Semi-Volatile Organic Compounds

Table 7 Groundwater Sample Analytical Data – Pesticides and PCBs

Table 8 Groundwater Sample Analytical Data – Total Metals

Table 9 Soil Vapor Sample Analytical Data – Volatile Organic Compounds

APPENDICES

Appendix A Proposed Development Plans

Appendix B Soil Boring Logs

Appendix C Well Sampling Logs

Appendix D Soil Vapor Sampling Logs

Appendix E Laboratory Data Reports

LIST OF ACRONYMS

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

CERTIFICATION

I, Thomas J. Melia, 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 Henry Phipps Plaza South (Parcel 1) Site, (NYC OER Site No. 14RHAZ082M). 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.

Qualified Environmental Professional Date Signature

EXECUTIVE SUMMARY

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

Site Location and Current Usage

The Site is located at 325 East 25th Street in the Kips Bay section of Manhattan, New York and is identified as Block 931 and Lot 17 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 9,275-square feet and is bounded by a 14-story residential building (444-458 2nd Avenue) to the north, East 25th Street to the south, a surface parking lot which is an accessory to a 25-story NYU Dormitory building (334 East 26th Street) to the east, and a 5-story residential building (319-321 East 25th Street) to the west. A map of the site boundary is shown in **Figure 2**. Currently, the Site is used as a playground (western half of site) and storage for a nursery/landscaping company (eastern half of site); the property is completely paved, but contains no buildings or other permanent improvements.

Summary of Proposed Redevelopment Plan

The proposed future use of the Site will consist of a nine-story residential building with a partial basement (approx. total gross square footage of 53,600 square feet). The building will contain approximately 56 residential units. The footprint of the building will encompass approximately two-thirds of the property; the rear third of the property not covered by the building footprint will be used as outdoor passive recreation space. The partial basement will be used for utility/machinery space and storage. Construction of the basement will require excavation to a depth of approximately 12 feet below ground surface (bgs). Proposed development plans are included as **Appendix A**. The current zoning designation is R8 Residential. The proposed use is consistent with existing zoning for the property.

Summary of Past Uses of Site and Areas of Concern

Merritt Engineering Consultants, PC (MEC) prepared a Phase I ESA for the site in May 2007; PWGC prepared a Phase I ESA Update in November 2007. Based on the MEC and PWGC reports, the property has been developed since at least the late 1800s. Based on review

of Sanborn Maps and Historical City Directories, since at least 1890 through at least 1963, the property has been utilized for various commercial uses, as detailed below. Note that, historically, addresses associated with the subject property have included 323 to 329 East 25th Street.

Sanborn Map Review

- 1890 to 899: The subject property appears to be improved with four buildings. The building located at 323 East 25th Street is identified as "Provisions". The use of the other buildings is unknown.
- 1910: The properties located at 325-329 East 25th Street are improved with buildings utilized as stores and dwellings. The buildings are identified as 3-4 stories with basements. The property identified as 323 East 25th Street is utilized as a 2-story stable, and identified as "Express".
- 1929: The property located at 329 East 25th Street was utilized as a 4-story dwelling with a basement. The property identified as 323 East 25th Street remains a 2-story stable, identified as "Express". The property at 325-327 East 25th Street was improved with a 3-story building with a basement. The first floor was utilized as an automobile garage.
- 1950: The property located at 329 East 25th Street remains a 4-story dwelling with a basement. The property at 325-327 East 25th Street remained a 3-story building, which was vacant. The property identified as 323 East 25th Street was improved with a 2-story building that was utilized as an auto body repairing shop on the 1st floor, and was vacant on the second floor.
- 1968 to 1996: The subject property appears to be vacant.

Historical City Directory Review

- 1923-1927: NY Metal Goods
- 1927: Bilt Well Sign System Elec Inc.
- 1950-1958: M&H Auto Body Repair Co
- 1956-1963: Various photography companies
- 1927-1942: NY Linen Supply and Laundry

- 1956-1963: QT McGovern Trucking Co., Inc.

Based on the Phase I and Phase II ESA's prepared for the site no specific areas of concern (AOC) have been identified.

Summary of the Work Performed under the Remedial Investigation

PWGC performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed three soil borings across the entire project Site, and collected three soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Collected one groundwater samples from the existing monitoring well at the site for chemical analysis to evaluate groundwater quality;
4. Installed three soil vapor probes within the proposed building footprint and collected three samples for chemical analysis.

Summary of Environmental Findings

1. Elevation of the property is approximately 22 feet.
2. Depth to groundwater is approximately 11 to 12 feet at the Site.
3. Regional groundwater flow is generally from west to east beneath the Site.
4. Depth to bedrock is ranges from approximately five to at least 15 feet at the Site.
5. The stratigraphy of the site, from the surface down, consists of approximately 10 feet of fill material, underlain by at least five feet of sandy soils which appeared to be native material, underlain by bedrock.
6. Soil/fill samples collected during the RI showed SVOC and lead impact in the vicinity of boring B-1 in the northwestern portion of the site in excess of Restricted Residential SCOs. SVOC, barium and lead impact in excess of Restricted Residential SCOs was identified beneath the northern portion of the site at location SB002.

7. Groundwater samples collected during the RI showed metals impact beneath the site; however, metals detected (iron, magnesium, manganese, and sodium) are commonly found in groundwater as a result of the chemical composition of the aquifer soils.

8. Soil vapor samples collected during the RI did not identify VOC impact in excess of NYSDOH AGVs; compounds for which NYSDOH has created decision matrices were not detected.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

P.W. Grosser Consulting, Inc. (PWGC) has prepared this report on behalf of Henry Phipps Plaza South HDFC to document a Remedial Investigation (RI) performed to address a Restrictive Declaration associated with a 0.21-acre site located at 325 East 25th Street in the Kips Bay section of Manhattan, New York. Residential use is proposed for the property. The RI work was performed on August 22 through 23, 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 at 325 East 25th Street in the Kips Bay section of Manhattan, New York and is identified as Block 931 and Lot 17 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 9,275-square feet and is bounded by a 14-story residential building (444-458 2nd Avenue) to the north, East 25th Street to the south, a surface parking lot which is an accessory to a 25-story NYU Dormitory building (334 East 26th Street) to the east, and a 5-story residential building (319-321 East 25th Street) to the west. A map of the site boundary is shown in **Figure 2**. Currently, the Site is used as a playground (western half of site) and storage for a nursery/landscaping company (eastern half of site); the property is completely paved, but contains no buildings or other permanent improvements.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a nine-story residential building with a partial basement (approx. total gross square footage of 53,600 square feet). The building will contain approximately 56 residential units. The footprint of the building will encompass approximately two-thirds of the property; the rear third of the property not covered by the building footprint will be used as outdoor passive recreation space. The partial basement will be used for utility/machinery space and storage. Construction of the basement will require excavation to a depth of approximately 12 feet below ground surface (bgs). Proposed

development plans are included as **Appendix A**. The current zoning designation is R8 Residential. The proposed use is consistent with existing zoning for the property.

1.3 Description of Surrounding Property

The area surrounding the subject property is comprised of a mix of residential and commercial properties. One sensitive receptor is located adjacent to the subject property. The Acorn School (330 East 26th Street), a day care center is located adjacent to the north. Two additional sensitive receptors are located in close proximity (within 0.1 mile) to the subject property. Nearby sensitive receptors in the vicinity of the site include two hospitals: Bellevue Hospital Center (462 First Avenue, 0.1 mile east), and Veterans Administration NY Harbor Healthcare System Manhattan Campus (423 East 23rd Street, 0.1 mile southeast)

Figure 3 shows the surrounding land usage.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Merritt Engineering Consultants, PC (MEC) prepared a Phase I ESA for the site in May 2007; PWGC prepared a Phase I ESA Update in November 2007. Based on the MEC and PWGC reports, the property has been developed since at least the late 1800s. Based on review of Sanborn Maps and Historical City Directories, since at least 1890 through at least 1963, the property has been utilized for various commercial uses, as detailed below. Note that, historically, addresses associated with the subject property have included 323 to 329 East 25th Street.

Sanborn Map Review

- 1890 to 899: The subject property appears to be improved with four buildings. The building located at 323 East 25th Street is identified as "Provisions". The use of the other buildings is unknown.
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- 1956-1963: QT McGovern Trucking Co., Inc.

2.2 Previous Investigations

PWGC performed a Phase II Environmental Site Assessment (ESA) in August/September 2007. The Phase II ESA included a geophysical survey, as well as soil and groundwater sampling. Findings of the Phase II ESA included the following:

- The geophysical survey did not identify anomalies at the site indicative of the presence of underground storage tanks (USTs).
- SVOC and metals impact at concentrations exceeding Unrestricted Use SCOs was identified throughout the site in shallow (0 to 2 feet bgs) soils. SVOC and metals impact in soils beneath the 0 to 2 foot interval was limited to one location, soil boring B-1 at 3 to 5 feet bgs. With the exception of lead at soil boring B-1 at 3 to 5 feet bgs, metals impact was below Restricted Residential SCOs.
- VOC, pesticide and PCB impact was not detected at concentrations above Restricted Residential SCOs in soils at the site.
- Several metals were detected at concentrations exceeding their respective AWQS in groundwater samples collected form the site. Based on the concentration differences between filtered and unfiltered groundwater samples elevated metals concentrations were likely the result of sample turbidity. Additionally, the groundwater samples were collected at or near bedrock, which is typically associated with higher metal concentrations in groundwater due to dissolved minerals from fractures in the bedrock.
- VOC, SVOC, pesticide and PCB impact was not detected in groundwater samples collected from the site.

- Sample data from the 2007 Phase II ESA is included in Table 1 through Table 8.

Based on the 2007 Phase II ESA, PWGC prepared a Remedial Action Plan (RAP) for the site which included the offsite disposal of excess soils and installation of a vapor barrier during construction. The RAP was submitted to NYCDEP who approved it and issued a Notice to Proceed; however, for reasons unrelated to environmental conditions at the site, construction of the new development did not begin and the RAP was not implemented.

2.3 Site Inspection

Prior to the start of investigation field work, PWGC performed a site inspection to identify potential areas of concern (AOCs) not previously identified during the Phase I ESA/Phase II ESA, and obstructions that may impede the scope of work detailed in the approved Phase II ESA Work Plan. The site inspection was performed on August 22, 2013 by Mr. Thomas Melia of PWGC.

Based on the site inspection, no additional AOCs were identified. With the exception of access to proposed soil boring location SB004, no access limitations were identified. Soil boring SB004 was intended to be installed within the existing playground area; this area is elevated approximately two feet above the remainder of the site and as such, was inaccessible to the drill rig. Due to the lack of access, samples will be collected from location SB004 during construction. PWGC notified NYCOER of the revised plan for location SB004 in an email dated August 22, 2013.

2.4 Areas of Concern

Based on the Phase I and Phase II ESA's prepared for the site no specific areas of concern (AOC) have been identified.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is Mr. Thomas Melia of PWGC.

3.2 Health and Safety

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

3.3 Materials Management

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

4.0 REMEDIAL INVESTIGATION ACTIVITIES

PWGC performed the following scope of work:

5. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
6. Installed three soil borings across the entire project Site, and collected three soil samples for chemical analysis from the soil borings to evaluate soil quality;
7. Collected one groundwater samples from the existing monitoring well at the site for chemical analysis to evaluate groundwater quality;
8. Installed three soil vapor probes within the proposed building footprint and collected three samples for chemical analysis.

4.1 Geophysical Investigation

A geophysical survey was performed at the site during the 2007 Phase II ESA (see Section 2.2). No anomalies indicative of the presence of USTs were identified at the subject property.

4.2 Borings and Monitoring Wells

Drilling and Soil Logging

In accordance with the approved Work Plan, three borings were installed at the site. One additional boring was planned but not installed due to access limitations (see Section 2.3). Boring locations and sample depths were selected to fill existing data gaps from the 2007 Phase II ESA. Specifically, borings SB001 and SB003 were intended to further delineate the lead and SVOC hotspot identified at location B-1 in 2007, and borings SB002 and SB004 were intended to characterize soils that will not be removed during construction (i.e., deeper than two feet bgs) beneath the portion of the site not covered by the proposed building footprint.

At each of the three soil boring locations, soil samples were collected continuously from grade to approximately five feet below grade. At each boring location, a PWGC hydrogeologist characterized soils in accordance with the Unified Soil Classification System (USCS) and field screened soils for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). PID response above background levels were not detected in soils collected from the site.

Soil borings were installed using a Geoprobe® direct push drill rig following standard Geoprobe® operation and sampling procedures (Geoprobe® SOP No. 95-8500). Non-dedicated sampling equipment was cleaned using distilled water and Alconox detergent with a distilled water rinse prior to the collection of each sample.

Boring logs were prepared by a PWGC Field Hydrogeologist and are attached in **Appendix B**. A map showing the location of soil borings and monitor wells is shown in **Figure 4**.

Groundwater Monitoring Well Construction

In accordance with the approved Work Plan, one groundwater sample was collected from one preexisting monitoring well at the site. The existing monitoring well was installed as part of a geotechnical investigation at the site in 2006. Prior to sampling, PWGC redeveloped the well by the overpurging method.

Monitor well locations are shown in **Figure 4**.

4.3 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted to address existing data gaps from the 2007 Phase II ESA for the site and also considered other means for bias of sampling based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

In accordance with the approved Work Plan, PWGC collected soil samples as follows:

- SB001 and SB003 – 3 to 5 feet below grade.
- SB002 – 2 to 4 feet below grade.

Samples were collected in pre-cleaned, laboratory supplied glassware and stored in a cooler on ice. Non-dedicated sampling equipment was cleaned using distilled water and a laboratory grade detergent with a distilled water rinse prior to the collection of each sample. Samples were transported to the laboratory by courier under proper chain of custody procedures.

Three 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 **Table 1** through **Table 4**. **Figure 4** shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

In accordance with the approved Work Plan, PWGC collected one groundwater sample. The sample was collected using low-flow purging and sampling methods. Filtered and unfiltered samples were collected for metals analysis; filtering of metals samples was performed by the analytical laboratory, not in the field. Samples were collected in pre-cleaned, pre-preserved, laboratory supplied glassware and stored in a cooler on ice. Non-dedicated sampling equipment was cleaned using distilled water and a laboratory grade detergent with a distilled water rinse prior to the collection of each sample. Samples were transported to the laboratory by courier under proper chain of custody procedures.

One groundwater sample was collected for chemical analysis during this RI. Groundwater sample collection data is reported in Table 5 through Table 8. Sampling logs with information on purging and sampling of groundwater monitoring wells is included in **Appendix C**. **Figure 4** shows the location of groundwater samples. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

In accordance with the approved Work Plan, three soil vapor sampling points were installed at the site. Due to the presence of shallow bedrock at the site, vapor sampling implants were installed to the following depths: SV001 2 to 3 feet bgs, SV002 7 to 8 feet bgs, and SV003 9 to 10 feet bgs. Soil-vapor sampling points were installed in accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006) using a Geoprobe® direct push drill rig following standard Geoprobe® operation and sampling procedures (Geoprobe® SOP No. 95-8500).

Sampling points were constructed of a dedicated stainless steel screen fitted with inert tubing to grade. Porous, inert backfill material was added to create a sampling zone 1 to 2 feet in length. Each sampling point was sealed above the sampling zone with bentonite slurry for a minimum distance of 3 feet to prevent outdoor air infiltration and the remainder of the borehole was backfilled with clean material. Soil vapor sampling points were allowed to equilibrate for a minimum of 24 hours prior to sample collection.

Soil vapor samples were collected using laboratory provided, certified-clean 1.0L SUMMA® canisters fitted with a pre-set flow regulator. Canisters were pre-set with an initial vacuum of approximately 29 inches of mercury (in. of Hg) for sample collection and flow regulators pre-set to provide uniform sample collection over an approximate 2-hour sampling period. Sample collection was ceased (i.e., the valve on the canister closed) with a minimum of one inch of Hg vacuum remained in the canister, leaving a vacuum in the canister as a means for the laboratory to verify the canister did not leak while in transit.

Approximately one to three implant volumes was purged from each sampling point prior to sample collection. A tracer gas (helium) was used prior and subsequent to sample collection to verify that adequate sampling techniques were used and that the implant seal did not leak. The sample flow rate did not exceed 0.2 liters per minute.

Three soil vapor probes were installed and three soil vapor samples were collected for chemical analysis during this RI. Soil vapor sampling locations are shown in **Figure 4**. Soil vapor sample collection data is reported in Table 9. Soil vapor sampling logs are included in **Appendix D**. 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 Mr. James Rhodes of PWGC.
Chemical Analytical Laboratory	Chemical analytical laboratory used in the RI is NYS ELAP certified and was Alpha Analytical (ELAP ID11148)
Chemical Analytical Methods	Soil analytical methods: • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); 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 Table 1 through **Table 9**, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in **Appendix E**.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

Stratigraphy

Soils beneath the site were characterized to a depth of approximately fifteen feet below grade (including the 2007 Phase II ESA and current RI). Bedrock at the site dips to the east; bedrock was encountered at depths of approximately five feet bgs beneath the western portion of the property; approximately 15 feet bgs in the central portion of the property, and was not encountered as drilling depths (up to 15 feet bgs) beneath the eastern portion of the property. In general, soils above bedrock consisted of medium and fine grained sands with gravel, and construction fill material (brick and asphalt). Evidence of the presence of non-native, construction fill material (e.g., crushed concrete, red brick) was identified throughout the site. In general, evidence of fill material was identified in soils from zero to ten feet bgs throughout the site; sandy soils that may be native material were encountered from 10 to 15 feet bgs beneath the central and eastern portions of the site.

Hydrogeology

Groundwater was encountered at a depth of 11.5 feet below grade at the monitoring well location at the site. Regional groundwater flow in the vicinity of the site is toward the east.

5.2 Soil Chemistry

A total of three soil samples were collected as part of this RI. Samples were collected from soil borings SB001 (3 to 5 feet), SB002 (2 to 4 feet) and SB003 (3 to 5 feet). Samples collected from borings SB001 and SB003 were intended to further delineate the lead and SVOC hotspot identified at location B-1 in 2007; samples collected from boring SB002 were intended to characterize soils that will not be removed during construction (i.e., deeper than two feet bgs) beneath the portion of the site not covered by the proposed building footprint. Based on conversations with NYCOER, site specific SCOs for the subject property will include 250 ppm for total SVOCs, and 1,000 ppm for lead.

Samples collected from borings SB001 and SB003 analyzed for SVOCs and lead; the sample collected from boring SB002 was analyzed for the full suite of NYCOER parameters.

Multiple SVOCs and lead were detected at concentrations exceeding their respective Restricted Residential SCOs in samples collected from borings SB001 and SB003. Total SVOC concentrations in the samples collected from borings SB001 (17.4 ppm) and SB003 (110.5 ppm) were below NYCOER's site specific SCO of 250 ppm. Lead concentrations in samples collected from SB001 (1300 ppm) and SB003 (1900 ppm) while less than those detected at location B-1 in 2007 still exceed the site specific SCO of 1000 ppm. Collection of additional lead delineation/endpoint samples will be addressed in the RAP.

SVOCs and metals were detected at concentrations exceeding their respective Restricted Residential SCOs in the sample collected from boring SB002. Total SVOC impact detected (132.8 ppm) was similar to concentrations detected at other locations throughout the site, and below NYCOER's site specific SCO of 250 ppm for total SVOCs. Metals impact included lead; lead was detected at a concentration above its Restricted Residential SCO (830 ppm), but below the concentrations detected in the vicinity of location B-1 and the site specific SCO of 1000 ppm. Two pesticide compounds (4,4'-DDE and 4,4'-DDT) were detected at concentrations slightly above their respective Unrestricted Use SCOs but below the corresponding Restricted Residential SCOs. VOCs and PCBs were not detected at concentrations exceeding their respective Unrestricted Use SCOs in the sample collected from boring location SB002.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site, with the exception of lead in the vicinity of location B-1 which will be further addressed in the RAP. A summary table of data for chemical analyses performed on soil samples is included in **Table 1** through **Table 4**.

Figure 5 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Soil Cleanup Objectives.

5.3 Groundwater Chemistry

One groundwater sample was collected as part of this RI. The sample was collected from preexisting monitoring well MW. The groundwater sample was analyzed for the full suite of NYCOER parameters, including dissolved (filtered) and total (unfiltered) metals.

Several metals were detected at concentrations exceeding their respective AWQS in the groundwater sample collected from monitoring well MW. Metals impact was similar to what was detected at that location in 2007, and consisted of metals that are commonly found in groundwater as a result of the chemical composition of the aquifer soils (iron, magnesium, manganese, sodium). VOCs, SVOCs, pesticides and PCBs were not detected at concentrations exceeding their respective AWQS in groundwater.

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 5** through **Table 8**.

Figure 6 shows the location and posts the values for groundwater that exceed the New York State 6NYCRR Part 703.5 Class GA groundwater standards.

5.4 Soil Vapor Chemistry

A total of three soil vapor samples were collected from the site. VOCs were not detected at concentrations exceeding their respective AGV in soil vapor samples collected from the site. Additionally, the compounds that NYSDOH has developed decision matrices for (carbon tetrachloride, 1,1-dichloroethene, cis-1,2-dichloroethene, PCE, TCE, 1,1,1-trichloroethane, and vinyl chloride), were not detected above the laboratory method detection limit (MDL) in soil vapor at the site.

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

5.5 Prior Activity

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

5.6 Impediments to Remedial Action

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

Figures

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, iPC, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), and the GIS User Community

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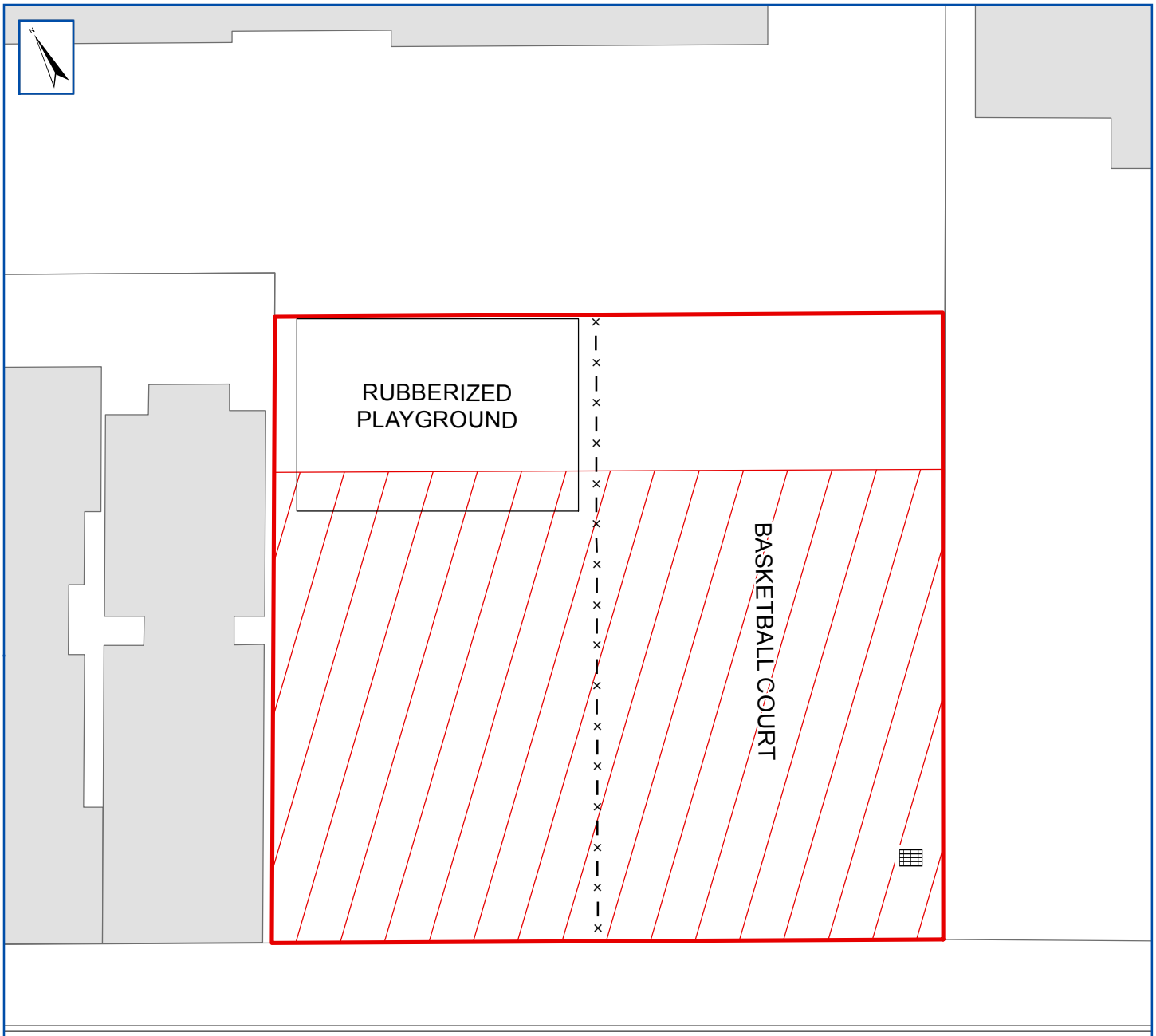
VICINITY MAP

HENRY PHIPPS PLAZA SOUTH (PARCEL 1)
EAST 25TH STREET
NEW YORK, NY

0 ¼ ½ ¾ 1 Miles

Project:	PHG1301
Date:	9/5/2013
Designed by:	TM
Drawn by:	BB
Approved by:	TM
Figure No:	1

Document Path: D:\GIS\Projects\M-R\PHG\1301\mapfiles\FIG1_VicinityMap.mxd



Storm Drain

Fence Line

Subject Site

Approx. Footprint of Proposed New Building

Adjacent Building Footprint

Adjacent Parcels

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SITE PLAN

HENRY PHIPPS PLAZA SOUTH (PARCEL 1)
EAST 25TH STREET
NEW YORK, NY

0 20 40 60 80 Feet

Project:	PHG1301
Date:	9/5/2013
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Approved by:	TM
Figure No:	2

Document Path: D:\GIS\Projects\M-R\PHG1301\mapfiles\FIG2_SitePlan.mxd

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SURROUNDING PROPERTY USAGE

HENRY PHIPPS PLAZA SOUTH (PARCEL 1)
EAST 25TH STREET
NEW YORK, NY

0 80 160 240 320 Feet

Project:	PHG1301
Date:	9/5/2013
Designed by:	TM
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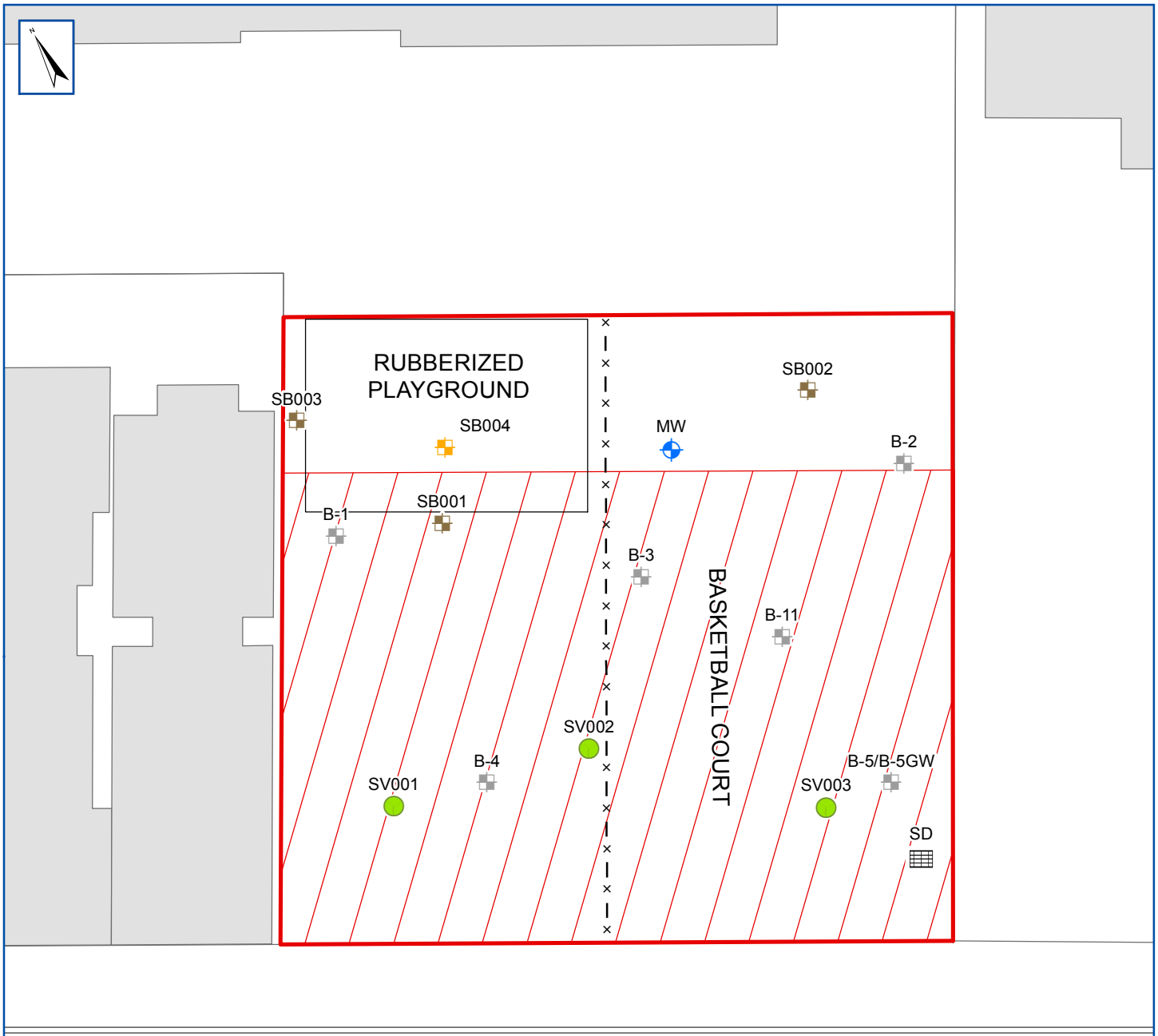
Approved by:	TM
Figure No:	3

Document Path: D:\GIS\Projects\M-R\PHG1301\mapfiles\FIG3_SurroundingProperties.mxd



- Soil Boring Location (2013)
- Proposed Boring Location (Not Installed)
- Soil Boring Location (2007)
- Soil Vapor Point
- Monitoring Well
- Storm Drain
- Fence Line
- Subject Site
- Approx. Footprint of Proposed New Building
- Adjacent Building Footprint
- Adjacent Parcels

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SAMPLE LOCATIONS

HENRY PHIPPS PLAZA SOUTH (PARCEL 1)
EAST 25TH STREET
NEW YORK, NY

0 20 40 60 80 Feet

Project:	PHG1301
Date:	9/5/2013
Designed by:	TM
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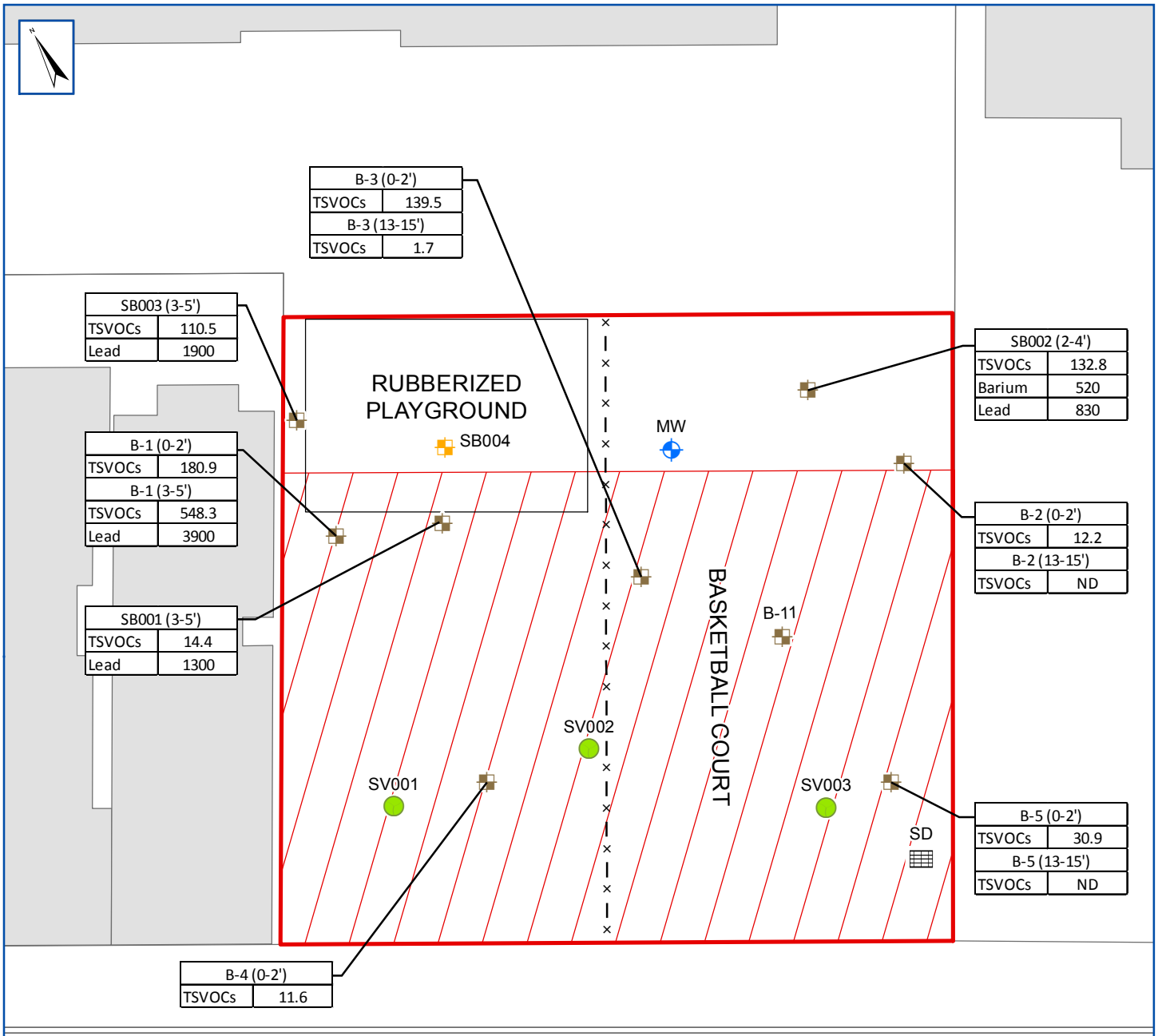
Approved by:	TM
Figure No:	4

Document Path: D:\GIS\Projects\M-R\PHG1301\mapfiles\FIG4_SampleLocations.mxd



EAST 25TH STREET

- Soil Boring Location (2013)
- Proposed Boring Location (Not Installed)
- Soil Boring Location (2007)
- Soil Vapor Point
- Monitoring Well
- Storm Drain
- Fence Line
- Subject Site
- Approx. Footprint of Proposed New Building
- Adjacent Building Footprint
- Adjacent Parcels

Note:
Concentration of analytes are given in parts per million (ppm).
Analytes and concentrations exceeding Restricted Residential SCO are showm.

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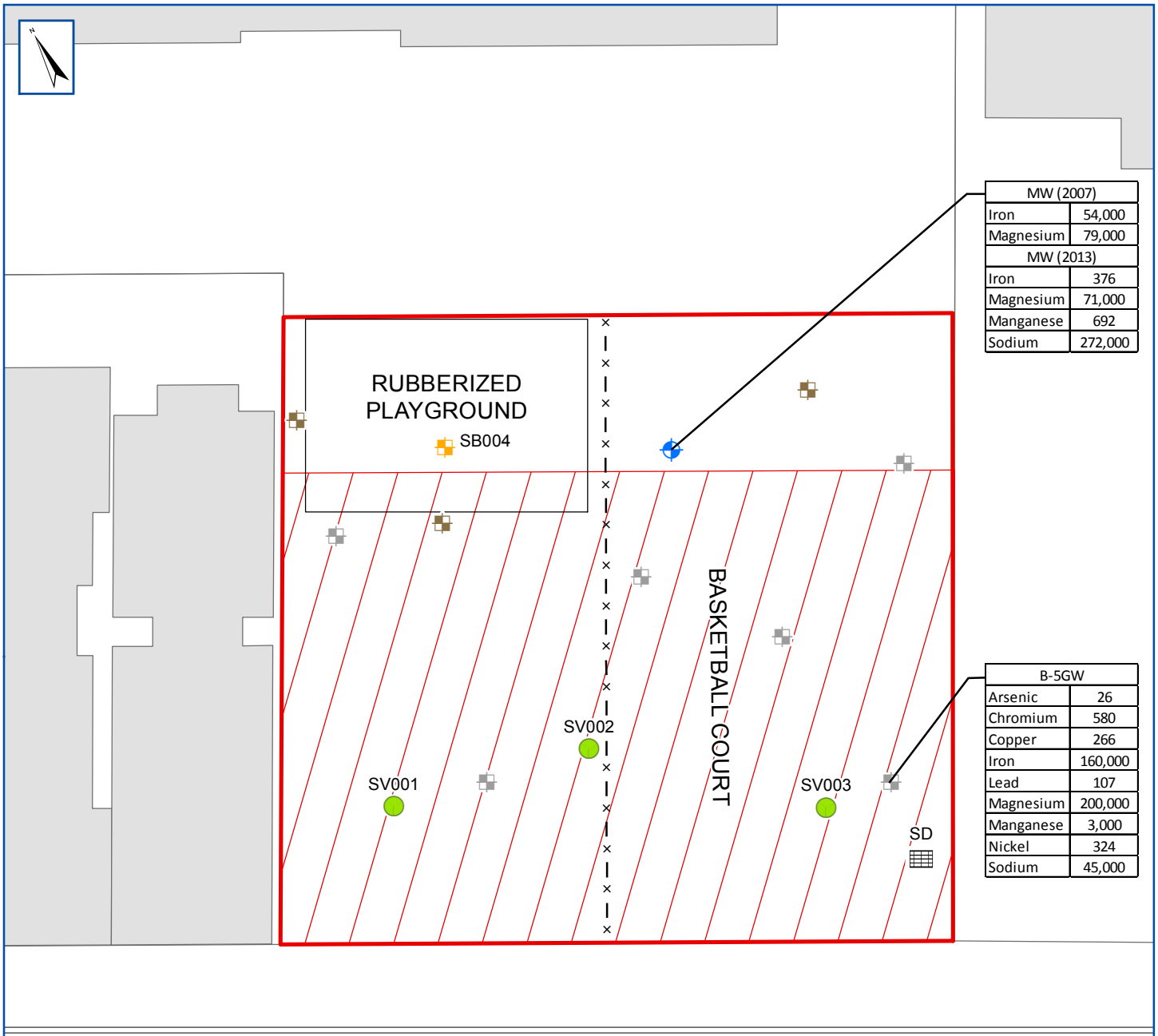
SOIL DATA

HENRY PHIPPS PLAZA SOUTH (PARCEL 1)
EAST 25TH STREET
NEW YORK, NY

0 20 40 60 80 Feet

Project:	PHG1301
Date:	9/5/2013
Designed by:	TM
Drawn by:	BB
Approved by:	TM
Figure No:	5

Document Path: D:\GIS\Projects\M-R\PHG1301\mapfiles\FIG5_SoilData.mxd



MW (2007)	
Iron	54,000
Magnesium	79,000
MW (2013)	
Iron	376
Magnesium	71,000
Manganese	692
Sodium	272,000

B-5GW	
Arsenic	26
Chromium	580
Copper	266
Iron	160,000
Lead	107
Magnesium	200,000
Manganese	3,000
Nickel	324
Sodium	45,000

- Soil Boring Location (2013)
- Proposed Boring Location (Not Installed)
- Soil Boring Location (2007)
- Soil Vapor Point
- Monitoring Well
- Storm Drain
- Fence Line
- Subject Site
- Approx. Footprint of Proposed New Building
- Adjacent Building Footprint
- Adjacent Parcels

Note:
Concentration of analytes are given in parts per billion (ppb).
Analytes detected abover AWQS in dissolved samples are shown.

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GROUNDWATER DATA

HENRY PHIPPS PLAZA SOUTH (PARCEL 1)
EAST 25TH STREET
NEW YORK, NY

0 20 40 60 80 Feet

Project:	PHG1301
Date:	9/5/2013
Designed by:	TM
Drawn by:	BB
Approved by:	TM
Figure No:	6

Document Path: D:\GIS\Projects\M-R\PHG1301\mapfiles\FIG6_GroundwaterData.mxd

Tables

Table 1

Soil Sample Analaytical Data Summary - Volatile Organic Compounds
Henry Phipps Plaza South (Parcel 1) - 14RHAZ082M

LOCATION	CAS	Unrestricted	Restricted	SB002 (2-4')	B-1 (0-2')	B-1 (3-5')	B-2 (0-2')	B-2 (13-15')	B-3 (0-2')	B-3 (13-15')	B-4 (0-2')	B-5 (0-2')	B-5 (13-15')	SD
SAMPLING DATE	Number	Use SCO[1]	Residential	8/22/2013	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/31/2007
LAB SAMPLE ID			SCO[2]	L1316532-02	L0712727-01	L0712727-02	L0712727-03	L0712727-04	L0712727-05	L0712727-06	L0712727-07	L0712727-08	L0712727-09	L0712727-20
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	71-55-6	680	100000	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	NA	54 U	54 U	57 U	60 U	57 U	57 U	53 U	54 U	58 U	58 U
1,1,2-Trichloroethane	79-00-5	NS	NS	0.98 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	75-34-3	270	26000	0.98 U	4.1 U	4.1 U	4.3 U	4.5 U	4.3 U	4.3 U	4 U	4.1 U	4.4 U	4.4 U
1,1-Dichloroethene	75-35-4	330	100000	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
1,1-Dichloropropene	563-58-6	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	96-18-4	NS	NS	NA	27 U	27 U	29 U	30 U	28 U	28 U	26 U	27 U	29 U	29 U
1,2,4-Trichlorobenzene	120-82-1	NS	NS	3.2 U	14 U	14 U	14 U	15 U	14 U	14 U	13 U	14 U	14 U	14 U
1,2,4-Trimethylbenzene	95-63-6	3600	52000	3.2 U	14 U	14 U	14 U	15 U	14 U	14 U	13 U	14 U	14 U	14 U
1,2,3-Trichlorobenzene	87-61-6	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	96-18-4	NS	NS	6.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NS	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	96-12-8	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	106-93-4	NS	NS	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	1100	100000	3.2 U	14 U	14 U	14 U	15 U	14 U	14 U	13 U	14 U	14 U	14 U
1,2-Dichloroethane	107-06-2	20	3100	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
1,2-Dichloropropane	78-87-5	NS	NS	2.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	108-67-8	8400	52000	3.2 U	14 U	14 U	14 U	15 U	14 U	14 U	13 U	14 U	14 U	14 U
1,3-Dichlorobenzene	541-73-1	2400	49000	3.2 U	14 U	14 U	14 U	15 U	14 U	14 U	13 U	14 U	14 U	14 U
1,3-Dichloropropane	142-28-9	NS	NS	3.2 U	14 U	14 U	14 U	15 U	14 U	14 U	13 U	14 U	14 U	14 U
1,4-Dichlorobenzene	106-46-7	1800	13000	3.2 U	14 U	14 U	14 U	15 U	14 U	14 U	13 U	14 U	14 U	14 U
1,4-Diethylbenzene	105-05-5	NS	NS	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	123-91-1	100	13000	65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	594-20-7	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	78-93-3	120	100000	6.5 U	27 U	27 U	29 U	30 U	28 U	28 U	26 U	27 U	29 U	29 U
2-Hexanone	591-78-6	NS	NS	6.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Ethyltoluene	622-96-8	NS	NS	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	108-10-1	NS	NS	6.5 U	27 U	27 U	29 U	30 U	28 U	28 U	26 U	27 U	29 U	29 U
Acetone	67-64-1	50	100000	2.4 J	27 U	27 U	29 U	30 U	28 U	28 U	26 U	27 U	29 U	29 U
Acrylonitrile	107-13-1	NS	NS	6.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	71-43-2	60	4800	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Bromobenzene	108-86-1	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	74-97-5	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	75-27-4	NS	NS	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	75-25-2	NS	NS	2.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	74-83-9	NS	NS	1.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	75-15-0	NS	NS	6.5 U	27 U	27 U	29 U	30 U	28 U	28 U	26 U	27 U	29 U	29 U
Carbon tetrachloride	56-23-5	760	2400	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Chlorobenzene	108-90-7	1100	100000	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Chloroethane	75-00-3	NS	NS	1.3 U	5.4 U	5.4 U	5.7 U	6 U	5.7 U	5.7 U	5.3 U	5.4 U	5.8 U	5.8 U
Chloroform	67-66-3	370	49000	0.98 U	4.1 U	4.1 U	4.3 U	4.5 U	4.3 U	4.3 U	4 U	4.1 U	4.4 U	4.4 U
Chloromethane	74-87-3	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	156-59-2	250	100000	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	10061-01-5	NS	NS	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	124-48-1	NS	NS	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Dibromomethane	74-95-3	NS	NS	6.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	75-71-8	NS	NS	6.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl ether	60-29-7	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	100-41-4	1000	41000	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Hexachlorobutadiene	87-68-3	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	98-82-8	NS	NS	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Methyl tert butyl ether	1634-04-4	930	100000	1.3 U	5.4 U	5.4 U	5.7 U	6 U	5.7 U	5.7 U	5.3 U	5.4 U	5.8 U	5.8 U
Methylene chloride	75-09-2	50	100000	6.5 U	27 U	27 U	29 U	30 U	28 U	28 U	26 U	27 U	29 U	29 U
n-Butylbenzene	104-51-8	12000	100000	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
n-Propylbenzene	103-65-1	3900	100000	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Naphthalene	91-20-3	12000	100000	3.2 U	14 U	140	14 U	15 U	14 U	14 U	13 U	14 U	14 U	14 U
o-Chlorotoluene	95-49-8	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	95-47-6	NS	NS	1.3 U	5.4 U	5.4 U	5.7 U	6 U	5.7 U	5.7 U	5.3 U	5.4 U	5.8 U	5.8 U
p-Chlorotoluene	106-43-4	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	99-87-6	NS	NS	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
p/m-Xylene	179601-23-1	NS	NS	1.3 U	5.4 U	5.4 U	5.7 U	6 U	5.7 U	5.7 U	5.3 U	5.4 U	5.8 U	5.8 U
sec-Butylbenzene	135-98-8	11000	100000	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Styrene	100-42-5	NS	NS	1.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	98-06-6	5900	100000	3.2 U	14 U	14 U	14 U	15 U	14 U	14 U	13 U	14 U	14 U	14 U
Tetrachloroethene	127-18-4	1300	19000	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Toluene	108-88-3	700	100000	0.98 U	4.1 U	4.1 U	4.3 U	4.5 U	4.3 U	4.3 U	4 U	4.1 U	4.4 U	4.4 U
trans-1,2-Dichloroethene	156-60-5	190	100000	0.98 U	4.1 U	4.1 U	4.3 U	4.5 U	4.3 U	4.3 U	4 U	4.1 U	4.4 U	4.4 U
trans-1,3-Dichloropropene	10061-02-6	NS	NS	0.65 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	110-57-6	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	79-01-6	470	21000	0.65 U	2.7 U	2.7 U	2.9 U	3 U	2.8 U	2.8 U	2.6 U	2.7 U	2.9 U	2.9 U
Trichlorofluoromethane	75-69-4	NS	NS	3.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	108-05-4	NS	NS	6.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	75-01-4	20	900	1.3 U	5.4 U	5.4 U	5.7 U	6 U	5.7 U	5.7 U	5.3 U	5.4 U	5.8 U	5.8 U

Notes:
All Concentrations are ppb (ug/kg)
1 - Unrestricted Use SCO, 6NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives
2 - Restricted Residential SCO, 6NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives
J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL)
U - Not detected at the reported detection limit for the sample.
NS - No standard established
NA - Analyte was not analyzed for
Yellow highlighted values exceed Unrestricted Use SCO
Orange highlighted values exceed Restricted Residential SCO

Table 2

Soil Sample Analaytical Data Summary - Semi-Volatile Organic Compounds
Henry Phipps Plaza South (Parcel 1) - 14RHAZ082M

LOCATION	CAS	Unrestricted	Restricted	SB001 (3-5')	SB002 (2-4')	SB003 (3-5')	B-1 (0-2')	B-1 (3-5')	B-2 (0-2')	B-2 (13-15')	B-3 (0-2')	B-3 (13-15')	B-4 (0-2')	B-5 (0-2')	B-5 (13-15')	SD
SAMPLING DATE	Number	Use SCO[1]	Residential	8/22/2013	8/22/2013	8/22/2013	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/31/2007
LAB SAMPLE ID			SCO[2]	L1316532-01	L1316532-02	L1316532-03	L0712727-01	L0712727-02	L0712727-03	L0712727-04	L0712727-05	L0712727-06	L0712727-07	L0712727-08	L0712727-09	L0712727-20
Semi-Volatile Organic Compounds																
1,2,4,5-Tetrachlorobenzene	95-94-3	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	1100	100000	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	2400	49000	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	1800	13000	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
2,4,6-Trichlorophenol	88-06-2	NS	NS	1200 U	1100 U	1100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	120-83-2	NS	NS	1700 U	1700 U	1600 U	2900 U	7200 U	770 U	790 U	7600 U	760 U	7100 U	7200 U	780 U	16000 U
2,4-Dimethylphenol	105-67-9	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	51-28-5	NS	NS	9300 U	8900 U	8600 U	5800 U	14000 U	1500 U	1600 U	15000 U	1500 U	14000 U	14000 U	1600 U	31000 U
2,4-Dinitrotoluene	121-14-2	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
2-Chloronaphthalene	91-58-7	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	95-57-8	NS	NS	1900 U	1800 U	1800 U	1700 U	4300 U	460 U	480 U	4500 U	450 U	4200 U	4300 U	460 U	9300 U
2-Methylnaphthalene	91-57-6	NS	NS	2300 U	2200 U	2200 U	720 U	1800 U	77 U	16 U	380 U	15 U	140 U	140 U	16 U	78 U
2-Methylphenol	95-48-7	330	100000	1900 U	1800 U	1800 U	1700 U	4300 U	460 U	480 U	4500 U	450 U	4200 U	4300 U	460 U	9300 U
2-Nitroaniline	88-74-4	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
2-Nitrophenol	88-75-5	NS	NS	4200 U	4000 U	3900 U	5800 U	14000 U	1500 U	1600 U	15000 U	1500 U	14000 U	14000 U	1600 U	31000 U
3,3'-Dichlorobenzidine	91-94-1	NS	NS	1900 U	1800 U	1800 U	2900 U	7200 U	770 U	790 U	7600 U	760 U	7100 U	7200 U	780 U	16000 U
3-Methylphenol/4-Methylphenol	108-39-4	330	100000	2800 U	2700 U	2600 U	1700 U	4300 U	460 U	480 U	4500 U	450 U	4200 U	4300 U	460 U	9300 U
3-Nitroaniline	99-09-2	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
4,6-Dinitro-o-cresol	534-52-1	NS	NS	5000 U	4800 U	4700 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	101-55-3	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	106-47-8	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
4-Chlorophenyl phenyl ether	7005-72-3	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	100-01-6	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	100-02-7	NS	NS	2700 U	2600 U	2500 U	2900 U	7200 U	770 U	790 U	7600 U	760 U	7100 U	7200 U	780 U	16000 U
Acenaphthene	83-32-9	20000	100000	1600 U	1500 U	1300 J	720 U	6700	77 U	16 U	380 U	15 U	140 U	140 U	16 U	78 U
Acenaphthylene	208-96-8	100000	100000	1600 U	2600	790 J	720 U	5000	400	16 U	380 U	15 U	140 U	760	16 U	78 U
Acetophenone	98-86-2	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aniline	62-53-3	NS	NS	NA	NA	NA	2900 U	7200 U	770 U	790 U	7600 U	760 U	7100 U	7200 U	780 U	16000 U
Anthracene	120-12-7	100000	100000	520 J	2200	3600	6100	20000	300	16 U	1600	59	450	910	16 U	78 U
Benzo(a)anthracene	56-55-3	1000	1000	1400	12000	8200	17000	52000	1300	16 U	4500	260	1400	3300	16 U	78 U
Benzo(a)pyrene	50-32-8	1000	1000	1300 J	11000	7300	12000	34000	1100	16 U	3100	160	1000	2500	16 U	78 U
Benzo(b)fluoranthene	205-99-2	1000	1000	1400	14000	8800	14000	43000	1500	16 U	3800	150	1200	3100	16 U	78 U
Benzo(ghi)perylene	191-24-2	100000	100000	830 J	6700	4300	7400	20000	900	16 U	2400	86	760	1700	16 U	78 U
Benzo(k)fluoranthene	207-08-9	800	3900	860 J	6200	4300	9100	24000	850	16 U	2300	91	780	1800	16 U	78 U
Benzoic Acid	65-85-0	NS	NS	6300 U	6000 U	5800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl Alcohol	100-51-6	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Biphenyl	92-52-4	NS	NS	4400 U	4200 U	4100 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethoxy)methane	111-91-1	NS	NS	2100 U	2000 U	1900 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroethyl)ether	111-44-4	NS	NS	1700 U	1700 U	1600 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-chloroisopropyl)ether	108-60-1	NS	NS	2300 U	2200 U	2200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	117-81-7	NS	NS	660 J	540 J	1800 U	7200	7200 U	770 U	790 U	98000	760 U	7100 U	7200 U	780 U	16000 U
Butyl benzyl phthalate	85-68-7	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
Carbazole	86-74-8	NS	NS	1900 U	740 J	1600 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	218-01-9	1000	3900	1600	13000	8600	15000	41000	1200	16 U	3700	270	1100	2900	16 U	78 U
Di-n-butylphthalate	84-74-2	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
Di-n-octylphthalate	117-84-0	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
Dibenzo(a,h)anthracene	53-70-3	330	330	1200 U	1900	1000 J	2600	6800	290	16 U	1000	41	360	600	16 U	78 U
Dibenzofuran	132-64-9	7000	59000	1900 U	1800 U	1000 J	1400 U	5500	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
Diethyl phthalate	84-66-2	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
Dimethyl phthalate	131-11-3	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
Fluoranthene	206-44-0	100000	100000	3100	22000	20000	34000	100000	1600	16 U	6500	240	2000	4900	16 U	78 U
Fluorene	86-73-7	30000	100000	1900 U	1800 U	1200 J	720 U	7500	77 U	16 U	380 U	15 U	140 U	140 U	16 U	78 U
Hexachlorobenzene	118-74-1	330	1200	1200 U	1100 U	1100 U	2900 U	7200 U	310 U	63 U	1500 U	61 U	570 U	580 U	62 U	310 U
Hexachlorobutadiene	87-68-3	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	NS	NS	5600 U	5300 U	5200 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	67-72-1	NS	NS	1600 U	1500 U	1400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	193-39-5	500	500	820 J	6900	4300	7500	21000	830	16 U	2100	76	780	1600	16 U	78 U
Isophorone	78-59-1	NS	NS	1700 U	1700 U	1600 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
n-Nitrosodi-n-propylamine	621-64-7	NS	NS	1900 U	1800 U	1800 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	12000	100000	1900 U	1800 U	1200 J	720 U	4800	77 U	16 U	380 U	15 U	140 U	140 U	16 U	78 U
Nitrobenzene	98-95-3	NS	NS	1700 U	1700 U	1600 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	NS	NS	1600 U	1500 U	1400 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-Chloro-M-Cresol	59-50-7	NS	NS	1900 U	1800 U	1800 U	1400 U	3600 U	380 U	400 U	3800 U	380 U	3500 U	3600 U	390 U	7800 U
Pentachlorophenol	87-86-5	800	6700	1600 U	1500 U	1400 U	2900 U	7200 U	310 U	63 U	1500 U	61 U	570 U	580 U	62 U	310 U
Phenanthrene	85-01-8	100000	100000	2200	12000	16000	20000	75000	470	16 U	3800	220	700	2200	16 U	78 U
Phenol	108-95-2	330	100000	1900 U	1800 U	1800 U	2000 U	5100 U	540 U	560 U	5300 U	530 U	5000 U	5100 U	540 U	11000 U
Pyrene	129-00-0	100000	100000	2700	21000	17000	29000	82000	1500	16 U	6700	420	1800	4600	16 U	78 U
Total SVOCs in ppm (mg/kg)	N/A	250*	N/A	17.4	132.8	110.5	180.9	548.3	12.2	ND	139.5	1.7	11.6	30.9	ND	ND

Notes:
All Concentrations are ppb (ug/kg), except as noted
1 - Unrestricted Use SCO, 6NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives
2 - Restricted Residential SCO, 6NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives
* - Value represents a Site Specific SCO for total SVOCs specified by NYCOER
J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL)
U - Not detected at the reported detection limit for the sample.
NS - No standard established
NA - Analyte was not analyzed for
N/A - Not applicable
ND - Not detected
Yellow highlighted values exceed Unrestricted Use SCO
Orange highlighted values exceed Restricted Residential SCO

Table 3

Soil Sample Analaytical Data Summary - Pesticides and Polychlorinated Biphenyls
Henry Phipps Plaza South (Parcel 1) - 14RHAZ082M

LOCATION SAMPLING DATE LAB SAMPLE ID	CAS Number	Unrestricted Use SCO[1]	Restricted Residential SCO[2]	SB002 (2-4') 8/22/2013 L1316532-02	B-1 (0-2') 8/30/2007 L0712727-01	B-1 (3-5') 8/30/2007 L0712727-02	B-2 (0-2') 8/30/2007 L0712727-03	B-2 (13-15') 8/30/2007 L0712727-04	B-3 (0-2') 8/30/2007 L0712727-05	B-3 (13-15') 8/30/2007 L0712727-06	B-4 (0-2') 8/30/2007 L0712727-07	B-5 (0-2') 8/30/2007 L0712727-08	B-5 (13-15') 8/30/2007 L0712727-09
Pesticides													
4,4'-DDD	72-54-8	3.3	13000	35.1 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
4,4'-DDE	72-55-9	3.3	8900	26.4 J	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
4,4'-DDT	50-29-3	3.3	7900	165	109	72.5 U	76.6 U	3.97 U	104	3.79 U	355 U	72.5 U	3.88 U
Aldrin	309-00-2	5	97	35.1 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Alpha-BHC	319-84-6	20	480	14.6 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Beta-BHC	319-85-7	36	360	35.1 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Chlordane	57-74-9	NS	NS	285 U	290 U	290 U	306 U	15.9 U	303 U	15.2 U	1420 U	290 U	15.5 U
cis-Chlordane	5103-71-9	94	4200	30.1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	319-86-8	40	100000	35.1 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Dieldrin	60-57-1	5	200	21.9 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Endosulfan I	959-98-8	2400	24000	35.1 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Endosulfan II	33213-65-9	2400	24000	35.1 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Endosulfan sulfate	1031-07-8	2400	24000	14.6 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Endrin	72-20-8	14	11000	14.6 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Endrin ketone	53494-70-5	NS	NS	35.1 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Heptachlor	76-44-8	42	2100	17.5 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Heptachlor epoxide	1024-57-3	NS	NS	65.8 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Lindane	58-89-9	100	1300	14.6 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Methoxychlor	72-43-5	NS	NS	65.8 U	290 U	290 U	306 U	15.9 U	303 U	15.2 U	1420 U	290 U	15.5 U
Toxaphene	8001-35-2	NS	NS	658 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-Chlordane	5103-74-2	NS	NS	43.8 U	72.5 U	72.5 U	76.6 U	3.97 U	75.8 U	3.79 U	355 U	72.5 U	3.88 U
Polychloriniated Biphenyls													
Aroclor 1016	12674-11-2	100	1000	36.1 U	36.2 U	36.2 U	38.3 U	39.7 U	37.9 U	37.9 U	35.5 U	36.2 U	38.8 U
Aroclor 1221	11104-28-2	100	1000	36.1 U	36.2 U	36.2 U	38.3 U	39.7 U	37.9 U	37.9 U	35.5 U	36.2 U	38.8 U
Aroclor 1232	11141-16-5	100	1000	36.1 U	36.2 U	36.2 U	38.3 U	39.7 U	37.9 U	37.9 U	35.5 U	36.2 U	38.8 U
Aroclor 1242	53469-21-9	100	1000	36.1 U	36.2 U	36.2 U	38.3 U	39.7 U	37.9 U	37.9 U	35.5 U	36.2 U	38.8 U
Aroclor 1248	12672-29-6	100	1000	36.1 U	36.2 U	36.2 U	38.3 U	39.7 U	37.9 U	37.9 U	35.5 U	36.2 U	38.8 U
Aroclor 1254	11097-69-1	100	1000	36.1 U	77.1	50.8	38.3 U	39.7 U	37.9 U	37.9 U	35.5 U	36.2 U	38.8 U
Aroclor 1260	11096-82-5	100	1000	36.1 U	36.2 U	36.2 U	38.3 U	39.7 U	37.9 U	37.9 U	35.5 U	36.2 U	38.8 U
Aroclor 1262	37324-23-5	100	1000	36.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor 1268	11100-14-4	100	1000	36.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
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2 - Restricted Residential SCO, 6NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives
J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).
U - Not detected at the reported detection limit for the sample.
NS - No standard established
NA - Analyte was not analyzed for
Yellow highlighted values exceed Unrestricted Use SCO
Orange highlighted values exceed Restricted Residential SCO

Table 4

Soil Sample Analaytical Data Summary - Total Metals
Henry Phipps Plaza South (Parcel 1) - 14RHAZ082M

LOCATION	CAS	Unrestricted	Restricted	SB001 (3-5')	SB002 (2-4')	SB003 (3-5')	B-1 (0-2')	B-1 (3-5')	B-2 (0-2')	B-2 (13-15')	B-3 (0-2')	B-3 (13-15')	B-4 (0-2')	B-5 (0-2')	B-5 (13-15')	SD
SAMPLING DATE	Number	Use SCO[1]	Residential	8/22/2013	8/22/2013	8/22/2013	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/30/2007	8/31/2007
LAB SAMPLE ID			SCO[2]	L1316532-01	L1316532-02	L1316532-03	L0712727-01	L0712727-02	L0712727-03	L0712727-04	L0712727-05	L0712727-06	L0712727-07	L0712727-08	L0712727-09	L0712727-20
Metals																
Aluminum, Total	7429-90-5	NS	NS	NA	6600	NA	9000	8000	9300	3700	7100	6800	6200	7600	4600	2900
Antimony, Total	7440-36-0	NS	NS	NA	1 J	NA	2.2 U	22	2.3 U	2.4 U	2.2 U	2.3 U	2.1 U	2.1 U	2.3 U	2.3 U
Arsenic, Total	7440-38-2	13	16	NA	6.8	NA	15	11	5.8	1.4	2.1	2	2.9	4.7	2.5	4
Barium, Total	7440-39-3	350	400	NA	520	NA	160	180	190	16	65	63	110	210	26	30
Beryllium, Total	7440-41-7	7.2	72	NA	0.22 J	NA	0.63	0.51	0.62	0.24 U	0.6	0.45 U	0.4	0.63	0.36	0.23
Cadmium, Total	7440-43-9	2.5	4.3	NA	0.95	NA	0.43 U	0.58	0.46 U	0.48 U	0.44 U	0.45 U	0.42 U	0.43 U	0.46 U	0.46 U
Calcium, Total	7440-70-2	NS	NS	NA	40000	NA	15000	37000	10000	670	6400	6500	19000	23000	690	2900
Chromium, Total	7440-47-3	180	30	NA	14	NA	23	19	13	11	15	15	7.6	14	10	27
Cobalt, Total	7440-48-4	NS	NS	NA	4.6	NA	6.8	4.6	8.4	3.7	6.1	7	8.6	8.2	5.1	12
Copper, Total	7440-50-8	50	270	NA	28	NA	49	48	67	6.9	24	22	74	62	14	230
Iron, Total	7439-89-6	NS	NS	NA	11000	NA	16000	42000	20000	6000	14000	14000	21000	18000	12000	27000
Lead, Total	7439-92-1	63	400	1300	830	1900	180	3900	140	7	10	9.9	78	210	4.4	110
Magnesium, Total	7439-95-4	NS	NS	NA	3000	NA	2800	2300	3500	1600	3900	3800	5100	5600	1900	1700
Manganese, Total	7439-96-5	1600	2000	NA	200	NA	260	330	260	53	210	210	190	250	130	150
Mercury, Total	7439-97-6	0.18	0.81	NA	0.5	NA	0.37	0.3	0.22	0.1 U	0.21	0.08 U	0.12	0.46	0.09 U	0.44
Nickel, Total	7440-02-0	30	310	NA	12	NA	14	14	11	7.3	13	12	9.1	20	11	25
Potassium, Total	7440-09-7	NS	NS	NA	920	NA	1700	1500	1600	520	2900	2800	950	1600	950	860
Selenium, Total	7782-49-2	3.9	180	NA	0.5 J	NA	2.2 U	2.2 U	2.3 U	2.4 U	2.2 U	0.9 U	2.1 U	2.1 U	2.3 U	2.3 U
Silver, Total	7440-22-4	2	180	NA	0.87 U	NA	0.43 U	0.43 U	0.46 U	0.48 U	0.44 U	0.45 U	0.42 U	0.43 U	0.46 U	0.46 U
Sodium, Total	7440-23-5	NS	NS	NA	580	NA	610	870	440	160	89 U	90 U	500	610	170	280
Thallium, Total	7440-28-0	NS	NS	NA	1.7 U	NA	2.2 U	2.2 U	2.3 U	2.4 U	2.2 U	0.9 U	2.1 U	2.1 U	2.3 U	2.3 U
Vanadium, Total	7440-62-2	NS	NS	NA	24	NA	33	24	51	12	21	21	51	48	15	43
Zinc, Total	7440-66-6	109	10000	NA	500	NA	200	230	130	20	34	28	100	180	25	2700

Notes:
All Concentrations are ppm (mg/kg)
1 - Unrestricted Use SCO, 6NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives
2 - Restricted Residential SCO, 6NYCRR Part 375-6, Remediation Program Soil Cleanup Objectives
J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).
U - Not detected at the reported detection limit for the sample.
NS - No standard established
NA - Analyte was not analyzed for
Yellow highlighted values exceed Unrestricted Use SCO
Orange highlighted values exceed Restricted Residential SCO

Table 5

Groundwater Sample Analaytical Data Summary - Volatile Organic Compounds
Henry Phipps Plaza South (Parcel 1) - 14RHAZ082M

LOCATION SAMPLING DATE LAB SAMPLE ID	CAS Number	AWQS[1]	B-5 GW 8/30/2007 L0712727-10	MW 8/30/2007 L0712727-11	MW 8/23/2013 L1316532-04	FIELD BLANK 8/23/2013 L1316532-05
Volatile Organic Compounds						
1,1,1,2-Tetrachloroethane	630-20-6	5	NA	NA	2.5 U	2.5 U
1,1,1-Trichloroethane	71-55-6	5	0.5 U	0.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	79-34-5	5	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	5	10 U	10 U	NA	NA
1,1,2-Trichloroethane	79-00-5	1	NA	NA	1.5 U	1.5 U
1,1-Dichloroethane	75-34-3	5	0.75 U	0.75 U	2.5 U	2.5 U
1,1-Dichloroethene	75-35-4	5	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	563-58-6	5	NA	NA	2.5 U	2.5 U
1,2,3-Trichlorobenzene	87-61-6	5	NA	NA	2.5 U	2.5 U
1,2,3-Trichloropropane	96-18-4	0.04	5 U	5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	95-93-2	NS	NA	NA	2 U	2 U
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	95-63-6	5	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-chloropropane	96-12-8	0.04	NA	NA	2.5 U	2.5 U
1,2-Dibromoethane	106-93-4	0.0006	NA	NA	2 U	2 U
1,2-Dichlorobenzene	95-50-1	3	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	107-06-2	0.6	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	78-87-5	1	NA	NA	1 U	1 U
1,3,5-Trimethylbenzene	108-67-8	5	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	541-73-1	3	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	142-28-9	5	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	106-46-7	3	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethylbenzene	105-05-5	NS	NA	NA	2 U	2 U
1,4-Dioxane	123-91-1	NS	NA	NA	250 U	250 U
2,2-Dichloropropane	594-20-7	5	NA	NA	2.5 U	2.5 U
2-Butanone	78-93-3	50	5 U	5 U	5 U	5 U
2-Hexanone	591-78-6	50	NA	NA	5 U	5 U
4-Ethyltoluene	622-96-8	NS	NA	NA	2 U	2 U
4-Methyl-2-pentanone	108-10-1	NS	5 U	5 U	5 U	5 U
Acetone	67-64-1	50	5.4	5 U	5 U	5 U
Acrylonitrile	107-13-1	5	NA	NA	5 U	5 U
Benzene	71-43-2	1	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	108-86-1	5	NA	NA	2.5 U	2.5 U
Bromochloromethane	74-97-5	5	NA	NA	2.5 U	2.5 U
Bromodichloromethane	75-27-4	50	NA	NA	0.5 U	0.5 U
Bromoform	75-25-2	50	NA	NA	2 U	2 U
Bromomethane	74-83-9	5	NA	NA	2.5 U	2.5 U
Carbon disulfide	75-15-0	60	5 U	5 U	5 U	5 U
Carbon tetrachloride	56-23-5	5	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	108-90-7	5	0.5 U	0.5 U	2.5 U	2.5 U
Chloroethane	75-00-3	5	1 U	1 U	2.5 U	2.5 U
Chloroform	67-66-3	7	0.75 U	0.75 U	2.5 U	2.5 U
Chloromethane	74-87-3	NS	NA	NA	2.5 U	2.5 U
cis-1,2-Dichloroethene	156-59-2	5	NA	NA	2.5 U	2.5 U
cis-1,3-Dichloropropene	10061-01-5	0.4	NA	NA	0.5 U	0.5 U
Dibromochloromethane	124-48-1	50	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	74-95-3	5	NA	NA	5 U	5 U
Dichlorodifluoromethane	75-71-8	5	NA	NA	5 U	5 U
Ethyl ether	60-29-7	NS	NA	NA	2.5 U	2.5 U
Ethylbenzene	100-41-4	5	0.5 U	0.5 U	2.5 U	2.5 U
Hexachlorobutadiene	87-68-3	0.5	NA	NA	2.5 U	2.5 U
Isopropylbenzene	98-82-8	5	0.5 U	0.5 U	2.5 U	2.5 U
Methyl tert butyl ether	1634-04-4	10	1 U	1 U	2.5 U	2.5 U
Methylene chloride	75-09-2	5	5 U	5 U	2.5 U	2.5 U
n-Butylbenzene	104-51-8	5	0.5 U	0.5 U	2.5 U	2.5 U
n-Propylbenzene	103-65-1	5	0.5 U	0.5 U	2.5 U	2.5 U
Naphthalene	91-20-3	10	2.5 U	2.5 U	2.5 U	2.5 U
o-Chlorotoluene	95-49-8	5	NA	NA	2.5 U	2.5 U
o-Xylene	95-47-6	5	1 U	1 U	2.5 U	2.5 U
p-Chlorotoluene	106-43-4	5	NA	NA	2.5 U	2.5 U
p-Isopropyltoluene	99-87-6	5	0.5 U	0.5 U	2.5 U	2.5 U
p/m-Xylene	179601-23-1	5	1 U	1 U	2.5 U	2.5 U
sec-Butylbenzene	135-98-8	5	0.5 U	0.5 U	2.5 U	2.5 U
Styrene	100-42-5	5	NA	NA	2.5 U	2.5 U
tert-Butylbenzene	98-06-6	5	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	127-18-4	5	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	108-88-3	5	0.75 U	0.75 U	2.5 U	2.5 U
trans-1,2-Dichloroethene	156-60-5	5	0.75 U	0.75 U	2.5 U	2.5 U
trans-1,3-Dichloropropene	10061-02-6	0.4	NA	NA	0.5 U	0.5 U
trans-1,4-Dichloro-2-butene	110-57-6	5	NA	NA	2.5 U	2.5 U
Trichloroethene	79-01-6	5	0.5 U	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	75-69-4	5	NA	NA	2.5 U	2.5 U
Vinyl acetate	108-05-4	NS	NA	NA	5 U	5 U
Vinyl chloride	75-01-4	2	1 U	1 U	1 U	1 U

Notes:
All Concentrations are ppb (ug/L)
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J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).
U - Not detected at the reported detection limit for the sample.
NS - No standard established
NA - Analyte was not analyzed for
Yellow highlighted values exceed AWQS

Table 6

Groundwater Sample Analaytical Data Summary - Semi-Volatile Organic Compounds
Henry Phipps Plaza South (Parcel 1) - 14RHAZ082M

LOCATION SAMPLING DATE LAB SAMPLE ID	CAS Number	AWQS[1]	B-5 GW 8/30/2007 L0712727-10	MW 8/30/2007 L0712727-11	MW 8/23/2013 L1316532-04	FIELD BLANK 8/23/2013 L1316532-05
Semi-Volatile Organic Compounds						
1,2,4,5-Tetrachlorobenzene	95-94-3	5	NA	NA	10 U	10 U
1,2,4-Trichlorobenzene	120-82-1	5	NA	NA	5 U	5 U
1,2-Dichlorobenzene	95-50-1	3	NA	NA	2 U	2 U
1,3-Dichlorobenzene	541-73-1	3	NA	NA	2 U	2 U
1,4-Dichlorobenzene	106-46-7	3	NA	NA	2 U	2 U
2,4,5-Trichlorophenol	95-95-4	NS	5 U	4.9 U	5 U	5 U
2,4,6-Trichlorophenol	88-06-2	NS	NA	NA	5 U	5 U
2,4-Dichlorophenol	120-83-2	1	10 U	9.8 U	5 U	5 U
2,4-Dimethylphenol	105-67-9	50	NA	NA	5 U	5 U
2,4-Dinitrophenol	51-28-5	10	30 U	29 U	20 U	20 U
2,4-Dinitrotoluene	121-14-2	5	NA	NA	5 U	5 U
2,6-Dinitrotoluene	606-20-2	5	5 U	4.9 U	5 U	5 U
2-Chloronaphthalene	91-58-7	10	NA	NA	0.2 U	0.2 U
2-Chlorophenol	95-57-8	NS	6 U	5.9 U	2 U	2 U
2-Methylnaphthalene	91-57-6	NS	0.2 U	0.2 U	0.2 U	0.2 U
2-Methylphenol	95-48-7	NS	6 U	5.9 U	5 U	5 U
2-Nitroaniline	88-74-4	5	5 U	4.9 U	5 U	5 U
2-Nitrophenol	88-75-5	NS	20 U	20 U	10 U	10 U
3,3'-Dichlorobenzidine	91-94-1	5	10 U	9.8 U	5 U	5 U
3-Methylphenol/4-Methylphenol	108-39-4	NS	6 U	5.9 U	5 U	5 U
3-Nitroaniline	99-09-2	5	5 U	4.9 U	5 U	5 U
4,6-Dinitro-o-cresol	534-52-1	NS	NA	NA	10 U	10 U
4-Bromophenyl phenyl ether	101-55-3	NS	NA	NA	2 U	2 U
4-Chloroaniline	106-47-8	5	5 U	4.9 U	5 U	5 U
4-Chlorophenyl phenyl ether	7005-72-3	NS	NA	NA	2 U	2 U
4-Nitroaniline	100-01-6	5	NA	NA	5 U	5 U
4-Nitrophenol	100-02-7	NS	10 U	9.8 U	10 U	10 U
Acenaphthene	83-32-9	20	0.2 U	0.2 U	0.2 U	0.2 U
Acenaphthylene	208-96-8	NS	0.2 U	0.2 U	0.2 U	0.2 U
Acetophenone	98-86-2	NS	NA	NA	5 U	5 U
Aniline	62-53-3	5	20 U	20 U	NA	NA
Anthracene	120-12-7	50	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(a)anthracene	56-55-3	NS	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(a)pyrene	50-32-8	0	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(b)fluoranthene	205-99-2	NS	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(ghi)perylene	191-24-2		0.2 U	0.2 U	0.2 U	0.2 U
Benzo(k)fluoranthene	207-08-9	NS	0.2 U	0.2 U	0.2 U	0.2 U
Benzoic Acid	65-85-0	NS	NA	NA	50 U	50 U
Benzyl Alcohol	100-51-6	NS	NA	NA	2 U	2 U
Biphenyl	92-52-4	NS	NA	NA	2 U	2 U
Bis(2-chloroethoxy)methane	111-91-1	5	NA	NA	5 U	5 U
Bis(2-chloroethyl)ether	111-44-4	1	NA	NA	2 U	2 U
Bis(2-chloroisopropyl)ether	108-60-1	5	NA	NA	2 U	2 U
Bis(2-Ethylhexyl)phthalate	117-81-7	5	5 U	4.9 U	3 U	2.2 J
Butyl benzyl phthalate	85-68-7	50	5 U	4.9 U	5 U	5 U
Carbazole	86-74-8	NS	NA	NA	2 U	2 U
Chrysene	218-01-9	0.002	0.2 U	0.2 U	0.2 U	0.2 U
Dibenzo(a,h)anthracene	53-70-3	NS	0.2 U	0.2 U	0.2 U	0.2 U
Dibenzofuran	132-64-9	NS	5 U	4.9 U	2 U	2 U
Diethyl phthalate	84-66-2	50	5 U	4.9 U	5 U	5 U
Dimethyl phthalate	131-11-3	50	5 U	4.9 U	5 U	5 U
Di-n-butylphthalate	84-74-2	50	5 U	4.9 U	5 U	5 U
Di-n-octylphthalate	117-84-0	50	5 U	4.9 U	5 U	5 U
Fluoranthene	206-44-0	50	0.2 U	0.73	0.09 J	0.2 U
Fluorene	86-73-7	50	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobenzene	118-74-1	0.04	0.8 U	0.78 U	0.8 U	0.8 U
Hexachlorobutadiene	87-68-3	0.5	NA	NA	0.5 U	0.5 U
Hexachlorocyclopentadiene	77-47-4	5	NA	NA	20 U	20 U
Hexachloroethane	67-72-1	5	NA	NA	0.8 U	0.8 U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.002	0.2 U	0.2 U	0.2 U	0.2 U
Isophorone	78-59-1	50	5 U	4.9 U	5 U	5 U
Naphthalene	91-20-3	10	0.2 U	0.2 U	0.2	0.2 U
Nitrobenzene	98-95-3	0.4	5 U	4.9 U	2 U	2 U
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	50	NA	NA	2 U	2 U
n-Nitrosodi-n-propylamine	621-64-7	NS	NA	NA	5 U	5 U
P-Chloro-M-Cresol	59-50-7	NS	5 U	4.9 U	2 U	2 U
Pentachlorophenol	87-86-5	1	0.8 U	0.78 U	0.8 U	0.8 U
Phenanthrene	85-01-8	50	0.2 U	0.2 U	0.2 U	0.2 U
Phenol	108-95-2	1	7 U	6.8 U	5 U	5 U
Pyrene	129-00-0	50	0.2 U	0.58	0.28	0.2 U

Notes:
All Concentrations are ppb (ug/L)
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J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).
U - Not detected at the reported detection limit for the sample.
NS - No standard established
NA - Analyte was not analyzed for
Yellow highlighted values exceed AWQS

Table 7

Groundwater Sample Analaytical Data Summary - Pesticides and Polychlorinated Biphenyls
Henry Phipps Plaza South (Parcel 1) - 14RHAZ082M

LOCATION SAMPLING DATE LAB SAMPLE ID	CAS Number	AWQS[1]	B-5 GW 8/30/2007 L0712727-10	MW 8/30/2007 L0712727-11	MW 8/23/2013 L1316532-04	FIELD BLANK 8/23/2013 L1316532-05
Pesticides						
4,4'-DDD	72-54-8	0.3	0.044 U	0.042 U	0.02 U	0.04 U
4,4'-DDE	72-55-9	0.2	0.044 U	0.042 U	0.02 U	0.04 U
4,4'-DDT	50-29-3	0.2	0.044 U	0.042 U	0.02 U	0.04 U
Aldrin	309-00-2	0	0.022 U	0.021 U	0.01 U	0.02 U
Alpha-BHC	319-84-6	0.01	0.022 U	0.021 U	0.01 U	0.02 U
Beta-BHC	319-85-7	0.04	0.022 U	0.021 U	0.01 U	0.02 U
Chlordane	57-74-9	0.05	0.217 U	0.21 U	0.1 U	0.2 U
cis-Chlordane	5103-71-9	NS	NA	NA	0.01 U	0.02 U
Delta-BHC	319-86-8	0.04	0.022 U	0.021 U	0.01 U	0.02 U
Dieldrin	60-57-1	0.004	0.044 U	0.042 U	0.02 U	0.04 U
Endosulfan I	959-98-8	NS	0.022 U	0.021 U	0.01 U	0.02 U
Endosulfan II	33213-65-9	NS	0.044 U	0.042 U	0.02 U	0.04 U
Endosulfan sulfate	1031-07-8	NS	0.044 U	0.042 U	0.02 U	0.04 U
Endrin	72-20-8	0	0.044 U	0.042 U	0.02 U	0.04 U
Endrin ketone	53494-70-5	5	0.044 U	0.042 U	0.02 U	0.04 U
Heptachlor	76-44-8	0.04	0.022 U	0.021 U	0.01 U	0.02 U
Heptachlor epoxide	1024-57-3	0.03	0.022 U	0.021 U	0.01 U	0.02 U
Lindane	58-89-9	0.05	0.022 U	0.021 U	0.01 U	0.02 U
Methoxychlor	72-43-5	35	0.217 U	0.21 U	0.1 U	0.2 U
Toxaphene	8001-35-2	0.06	NA	NA	0.1 U	0.2 U
trans-Chlordane	5103-74-2	NS	0.022 U	0.021 U	0.01 U	0.02 U
Polychlorinated Biphenyls						
Aroclor 1016	12674-11-2	0.09	0.1 U	0.1 U	0.083 U	0.083 U
Aroclor 1221	11104-28-2	0.09	0.1 U	0.1 U	0.083 U	0.083 U
Aroclor 1232	11141-16-5	0.09	0.1 U	0.1 U	0.083 U	0.083 U
Aroclor 1242	53469-21-9	0.09	0.1 U	0.1 U	0.083 U	0.083 U
Aroclor 1248	12672-29-6	0.09	0.1 U	0.1 U	0.083 U	0.083 U
Aroclor 1254	11097-69-1	0.09	0.1 U	0.1 U	0.083 U	0.083 U
Aroclor 1260	11096-82-5	0.09	0.1 U	0.1 U	0.083 U	0.083 U
Aroclor 1262	37324-23-5	0.09	NA	NA	0.083 U	0.083 U
Aroclor 1268	11100-14-4	0.09	NA	NA	0.083 U	0.083 U

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Yellow highlighted values exceed AWQS

Table 8

Groundwater Sample Analaytical Data Summary - Total and Dissolved Metals
Henry Phipps Plaza South (Parcel 1) - 14RHAZ082M

LOCATION SAMPLING DATE LAB SAMPLE ID	CAS Number	AWQS[1]	B-5 GW 8/30/2007 L0712727-10	MW 8/30/2007 L0712727-11	MW 8/23/2013 L1316532-04	FIELD BLANK 8/23/2013 L1316532-05
Metals (Dissolved)						
Aluminum	7429-90-5	NS	49000	3100	4.46 J	NA
Antimony	7440-36-0	3	50 U	50 U	1.57 J	NA
Arsenic	7440-38-2	25	26	5 U	0.75	NA
Barium	7440-39-3	1000	405	68	33.29	NA
Beryllium	7440-41-7	3	5 U	5 U	0.5 U	NA
Cadmium	7440-43-9	5	5 U	5 U	0.08 J	NA
Calcium	7440-70-2	NS	170000	92000	84800	NA
Chromium	7440-47-3	50	580	10 U	3.16	NA
Cobalt	7440-48-4	NS	60	20 U	1.09	NA
Copper	7440-50-8	200	266	17	1.26	NA
Iron	7439-89-6	300	160000	5400	376	NA
Lead	7439-92-1	25	107	10 U	1 U	NA
Magnesium	7439-95-4	35000	200000	79000	71000	NA
Manganese	7439-96-5	300	3000	266	692.4	NA
Mercury	7439-97-6	0.7	0.2 U	0.2 U	0.2 U	NA
Nickel	7440-02-0	100	324	25 U	2.59	NA
Potassium	7440-09-7	NS	47000	21000	20600	NA
Selenium	7782-49-2	10	10 U	10 U	0.82 J	NA
Silver	7440-22-4	50	7 U	7 U	0.59	NA
Sodium	7440-23-5	20000	45000	19000	27200	NA
Thallium	7440-28-0	0.5	20 U	20 U	0.07000 J	NA
Vanadium	7440-62-2	NS	140	11	1.45 J	NA
Zinc	7440-66-6	2000	908	50 U	7.29 J	NA
Metals (Total)						
Aluminum	7429-90-5	NS	98000	3500	208	12
Antimony	7440-36-0	3	50 U	50 U	2 U	2 U
Arsenic	7440-38-2	25	49	5 U	2.23	0.34 J
Barium	7440-39-3	1000	707	74	66.93	0.67
Beryllium	7440-41-7	3	6	5 U	0.5 U	0.5 U
Cadmium	7440-43-9	5	5 U	5 U	0.5 U	0.5 U
Calcium	7440-70-2	NS	170000	95000	83500	146
Chromium	7440-47-3	50	690	10 U	1.03	0.2 J
Cobalt	7440-48-4	NS	108	20 U	4.14	0.5 U
Copper	7440-50-8	200	370	19	2.46	0.92 J
Iron	7439-89-6	300	240000	5900	759	33.2 J
Lead	7439-92-1	25	146	10 U	1.8	0.45 J
Magnesium	7439-95-4	35000	210000	82000	69400	70 U
Manganese	7439-96-5	300	3820	283	2107	1.08
Mercury	7439-97-6	0.7	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	100	494	25 U	3.87	0.12 J
Potassium	7440-09-7	NS	54000	22000	21000	100 U
Selenium	7782-49-2	10	10 U	10 U	5 U	5 U
Silver	7440-22-4	50	7 U	7 U	0.5 U	0.5 U
Sodium	7440-23-5	20000	42000	20000	25700	15.5 J
Thallium	7440-28-0	0.5	20 U	20 U	0.5 U	0.5 U
Vanadium	7440-62-2	NS	265	11	1.75 J	5 U
Zinc	7440-66-6	2000	738	50 U	9.15 J	213.6

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Table 9

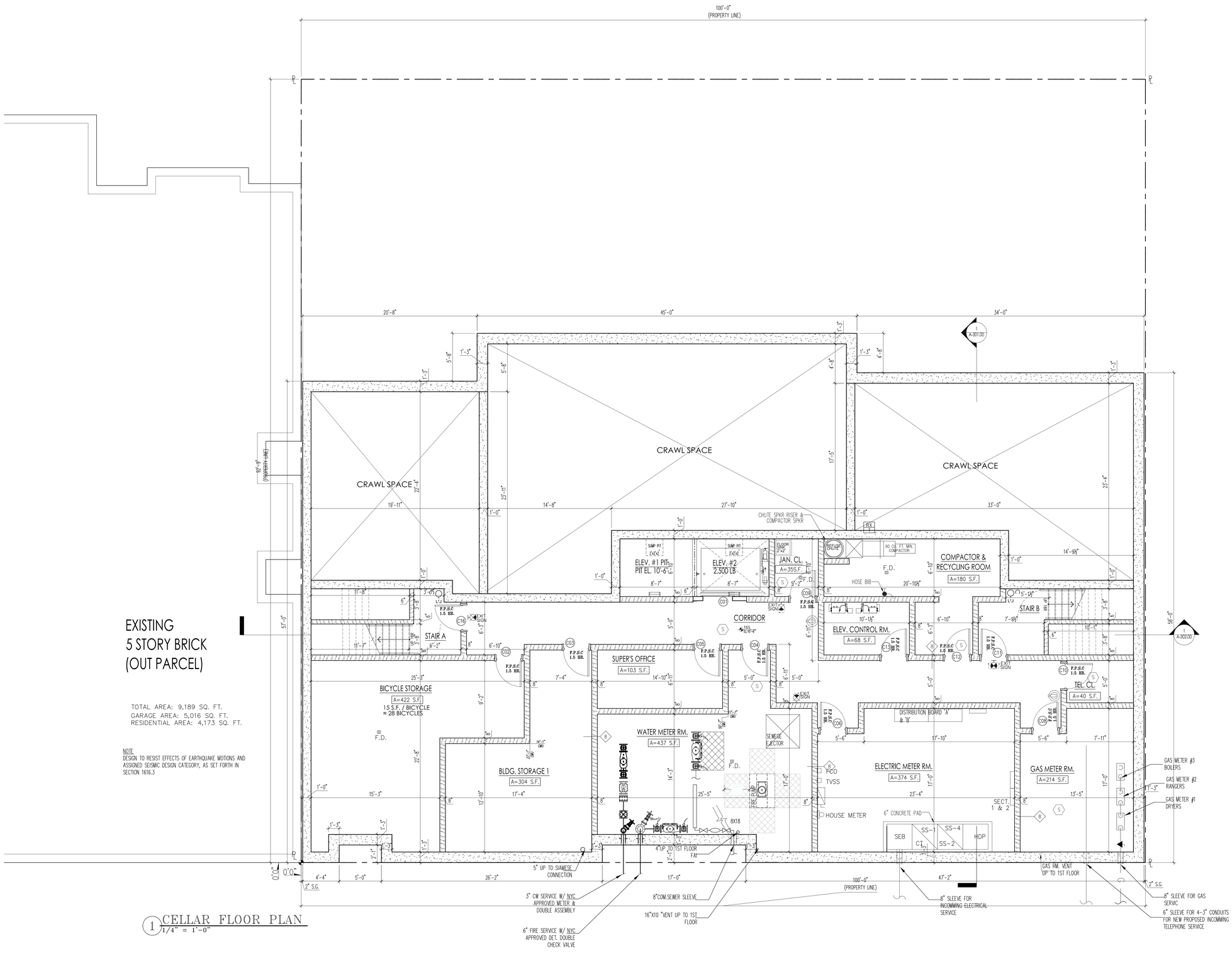
Soil Vapor Sample Analaytical Data Summary - Volatile Organic Compounds
Henry Phipps Plaza South (Parcel 1) - 14RHAZ082M

LOCATION SAMPLING DATE LAB SAMPLE ID	CAS Number	AGV	SV001 8/23/2013 L1316546-01	SV002 8/23/2013 L1316546-02	SV003 8/23/2013 L1316546-03
Volatile Organic Compounds					
1,1,1-Trichloroethane	71-55-6	NS	2.18 U	2.18 U	2.18 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	2.75 U	2.75 U	2.75 U
1,1,2-Trichloroethane	79-00-5	NS	2.18 U	2.18 U	2.18 U
1,1-Dichloroethane	75-34-3	NS	1.62 U	1.62 U	1.62 U
1,1-Dichloroethene	75-35-4	NS	1.59 U	1.59 U	1.59 U
1,2,4-Trichlorobenzene	120-82-1	NS	2.97 U	2.97 U	2.97 U
1,2,4-Trimethylbenzene	95-63-6	NS	10.1	9.98	8.95
1,2-Dibromoethane	106-93-4	NS	3.07 U	3.07 U	3.07 U
1,2-Dichlorobenzene	95-50-1	NS	2.4 U	2.4 U	2.4 U
1,2-Dichloroethane	107-06-2	NS	1.62 U	1.62 U	1.62 U
1,2-Dichloropropane	78-87-5	NS	1.85 U	1.85 U	1.85 U
1,3,5-Trimethybenzene	108-67-8	NS	2.56	2.59	2.36
1,3-Butadiene	106-99-0	NS	6.19	0.885 U	0.885 U
1,3-Dichlorobenzene	541-73-1	NS	2.4 U	2.4 U	2.4 U
1,4-Dichlorobenzene	106-46-7	NS	2.4 U	2.4 U	2.4 U
1,4-Dioxane	123-91-1	NS	1.44 U	1.44 U	1.44 U
2,2,4-Trimethylpentane	540-84-1	NS	14.3	1.87 U	1.87 U
2-Butanone	78-93-3	NS	44.5	20.6	28.5
2-Hexanone	591-78-6	NS	7.99	5.7	5.41
3-Chloropropene	107-05-1	NS	1.25 U	1.25 U	1.25 U
4-Ethyltoluene	622-96-8	NS	2.81	2.89	2.61
4-Methyl-2-pentanone	108-10-1	NS	7.34	2.4	3.02
Acetone	67-64-1	NS	1810	1240	1940
Benzene	71-43-2	NS	24.7	10.2	9.81
Benzyl chloride	100-44-7	NS	2.07 U	2.07 U	2.07 U
Bromodichloromethane	75-27-4	NS	2.68 U	2.68 U	2.68 U
Bromoform	75-25-2	NS	4.14 U	4.14 U	4.14 U
Bromomethane	74-83-9	NS	1.55 U	1.55 U	1.55 U
Carbon disulfide	75-15-0	NS	321	3.18	6.91
Carbon tetrachloride	56-23-5	NS	2.52 U	2.52 U	2.52 U
Chlorobenzene	108-90-7	NS	1.84 U	1.84 U	1.84 U
Chloroethane	75-00-3	NS	9.87	1.06 U	1.06 U
Chloroform	67-66-3	NS	65.4	4.47	87.9
Chloromethane	74-87-3	NS	1.85	0.999	2.23
cis-1,2-Dichloroethene	156-59-2	NS	1.59 U	1.59 U	1.59 U
cis-1,3-Dichloropropene	10061-01-5	NS	1.82 U	1.82 U	1.82 U
Cyclohexane	110-82-7	NS	9.6	2.09	1.99
Dibromochloromethane	124-48-1	NS	3.41 U	3.41 U	3.41 U
Dichlorodifluoromethane	75-71-8	NS	2.34	2.77	3.19
Ethanol	64-17-5	NS	29.6	19	35.4
Ethyl Acetate	141-78-6	NS	9.8	29.9	44
Ethylbenzene	100-41-4	NS	10.8	10.1	8.69
Freon-113	76-13-1	NS	3.07 U	3.07 U	3.07 U
Freon-114	76-14-2	NS	2.8 U	2.8 U	2.8 U
Heptane	142-82-5	NS	35.3	23.4	21.1
Hexachlorobutadiene	87-68-3	NS	4.27 U	4.27 U	4.27 U
Isopropanol	67-63-0	NS	5.7	2.46 U	4.79
Methyl tert butyl ether	1634-04-4	NS	1.44 U	1.44 U	1.44 U
Methylene chloride	75-09-2	60	6.95 U	6.95 U	7.19
n-Hexane	110-54-3	NS	41.9	13.1	15.6
o-Xylene	95-47-6	NS	10.9	10.6	9.3
p/m-Xylene	179601-23-1	NS	36.5	33.9	31
Propylene	115-07-1	NS	200	6.09	24.1
Styrene	100-42-5	NS	1.7 U	1.7 U	1.7 U
Tetrachloroethene	127-18-4	100	2.71 U	2.71 U	2.71 U
Tetrahydrofuran	109-99-9	NS	1.76	1.55	1.55
Toluene	108-88-3	NS	101	91.6	84
trans-1,2-Dichloroethene	156-60-5	NS	1.59 U	1.59 U	1.59 U
trans-1,3-Dichloropropene	10061-02-6	NS	1.82 U	1.82 U	1.82 U
Trichloroethene	79-01-6	5	2.15 U	2.15 U	2.15 U
Trichlorofluoromethane	75-69-4	NS	2.25 U	2.25 U	2.25 U
Vinyl acetate	108-05-4	NS	1.41 U	1.41 U	1.41 U
Vinyl bromide	593-60-2	NS	1.75 U	1.75 U	1.75 U
Vinyl chloride	75-01-4	NS	1.02 U	1.02 U	1.02 U

Notes:
All Concentrations are ug/m^3
1 - Air Guideline Values, NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York
J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL).
U - Not detected at the reported detection limit for the sample.
Yellow highlighted values exceed AWQS

Appendix A

Proposed Development Plans



1 CELLAR FLOOR PLAN
1/4" = 1'-0"

PROJECT:

HENRY PHIPPS PLAZA
INCLUSIONARY ONE

325 EAST 25TH STREET
NEW YORK,NY 10010

OWNER:
HENRY PHIPPS PLAZA SOUTH HDFC
902 BROADWAY
NEW YORK, NY 10010
TEL: (212) 243-9090
FAX:(212) 727-1639

ARCHITECT:
SLCE*Architects*
1359 BROADWAY
NEW YORK, NEW YORK 10018
TEL: (212) 979-8400
FAX: (212) 979-8387

STRUCTURAL ENGINEER:
DENARDIS ENGINEERING L.L.C.
15 RESERVOIR ROAD
WHITE PLAINS, NY 10603
TEL: (914) 948-8844
FAX: (914)948-8868

MECHANICAL ENGINEER:
RODKIN CARDINALE, P.C.
224 WEST 29TH STREET
NEW YORK, NY 10001
TEL: (212) 239-1892
FAX:(212) 239-6412

LANDSCAPE:
ABEL BAINNSON BUTZ, LLP
80 EIGHTH AVENUE, SUITE 1105
NEW YORK, NEW YORK 10705
TEL: (212) 206-0630
FAX: (212) 645-0048

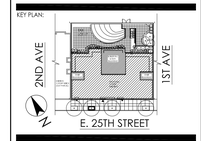
No:	Date:	Revision:
1	09.01.09	REVISED PER DOB OBJECTIONS
	06/15/09	DOB Submission

Date:	Distribution:

SCALE:

0 1' 2' 4' 8'

KEY PLAN:

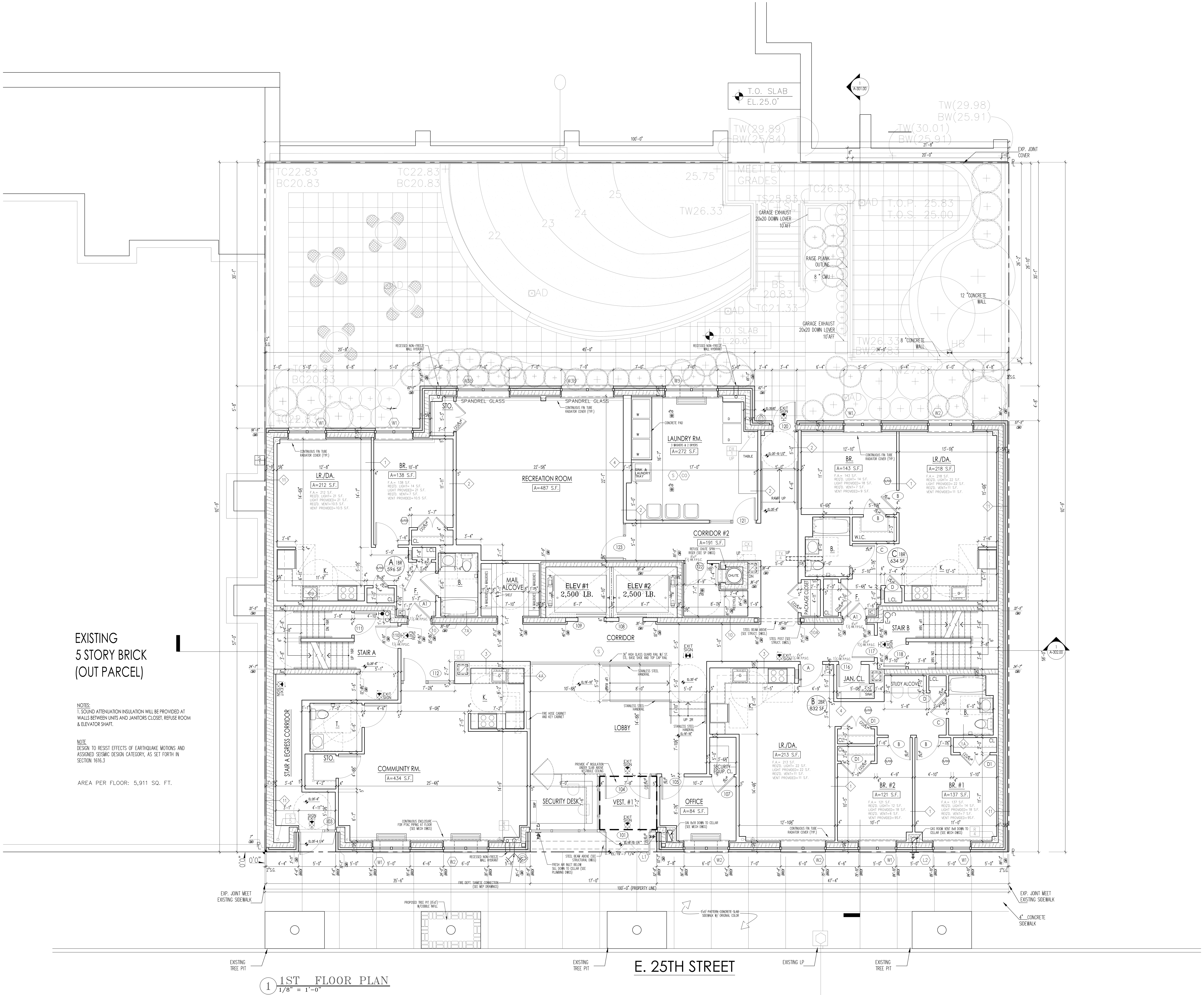


CELLAR FLOOR PLAN

SEAL & SIGNATURE:

PROJECT No:	2006-30
DRAWN BY:	R.LAZAREVIC
CHECKED BY:	S.TARAS
DWG. No:	A-101.00

DRAWING 12 OF 46



NOTES:
1. SOUND ATTENUATION INSULATION WILL BE PROVIDED AT WALLS BETWEEN UNITS AND JANITORS CLOSET, REFUSE ROOM & ELEVATOR SHAFT.

NOTE
DESIGN TO RESIST EFFECTS OF EARTHQUAKE MOTIONS AND ASSIGNED SEISMIC DESIGN CATEGORY, AS SET FORTH IN SECTION 1616.3

AREA PER FLOOR: 5,911 SQ. FT.

PROJECT:

HENRY PHIPPS PLAZA INCLUSIONARY ONE

325 EAST 25TH STREET
NEW YORK,NY 10010

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NEW YORK, NY 10010
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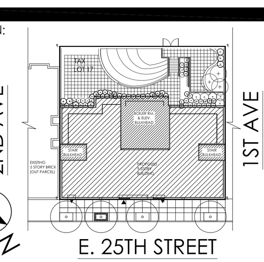
	Date:	Distribution:

No:	Date:	Revision:
1	09/01/09	REVISED PER DOB OBJECTIONS
	06/15/09	DOB Submission

SCALE:

0 1' 2' 4' 8'

KEY PLAN:

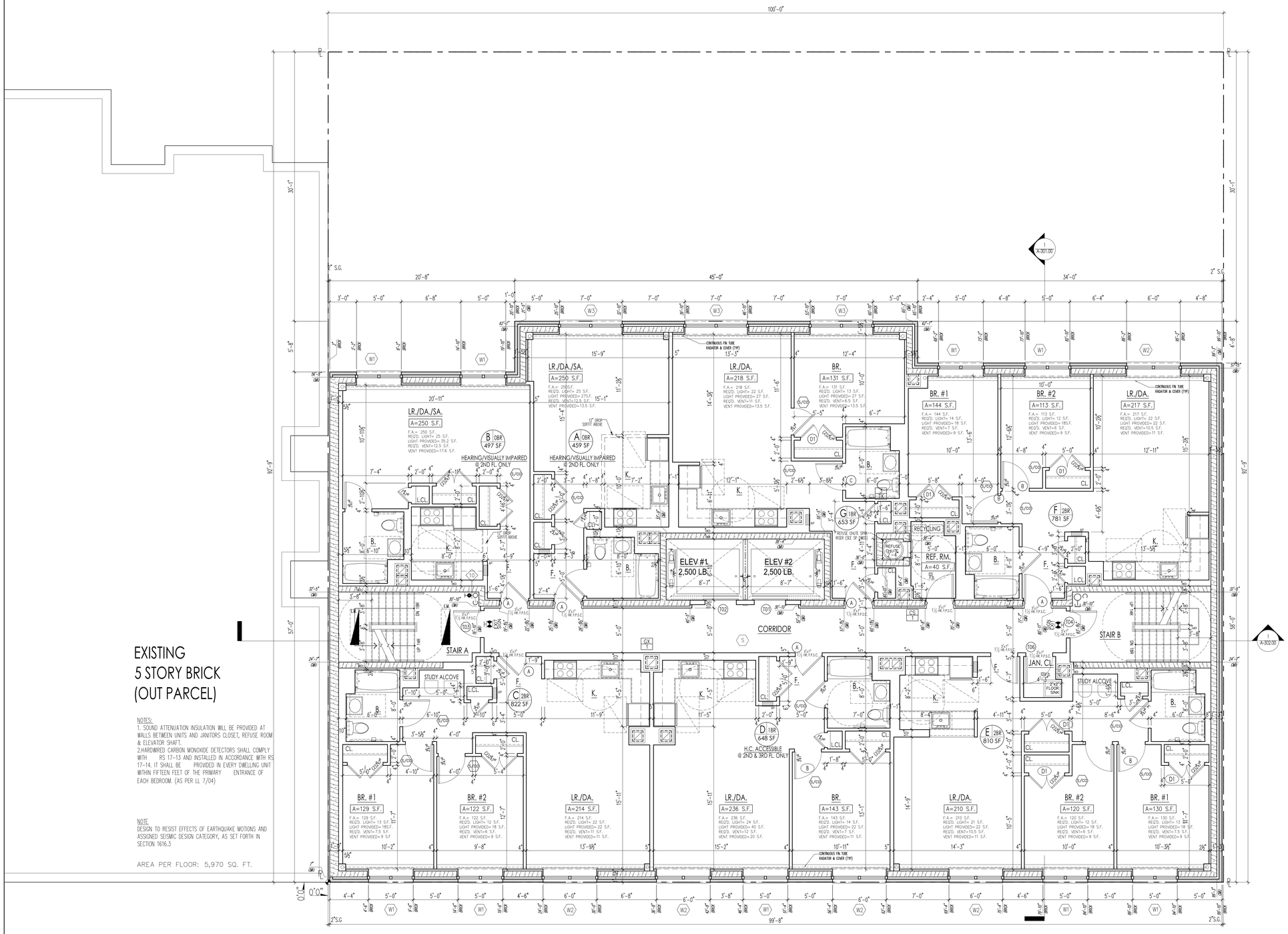


1ST FLOOR PLAN

SEAL & SIGNATURE:

PROJECT No:	2006-30
DRAWN BY:	R.LAZAREVIC
CHECK'D BY:	S.YAKAS
DWG. No:	A-102.00

DRAWING 13 OF 46



EXISTING
5 STORY BRICK
(OUT PARCEL)

NOTES:
1. SOUND ATTENUATION INSULATION WILL BE PROVIDED AT WALLS BETWEEN UNITS AND JANITORS CLOSET, REFUSE ROOM & ELEVATOR SHAFT.
2.HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH RS 17-13 AND INSTALLED IN ACCORDANCE WITH RS 17-14. IT SHALL BE PROVIDED IN EVERY DWELLING UNIT WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM. (AS PER LL 7/04)

NOTE
DESIGN TO RESIST EFFECTS OF EARTHQUAKE MOTIONS AND ASSIGNED SEISMIC DESIGN CATEGORY, AS SET FORTH IN SECTION 1616.3

AREA PER FLOOR: 5,970 SQ. FT.

1 TYP.2ND THRU 6TH FLOOR PLAN
1/8" = 1'-0"

PROJECT:

HENRY PHIPPS PLAZA INCLUSIONARY ONE

325 EAST 25TH STREET
NEW YORK,NY 10010

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No:	Date:	Revision:
1	09/01/09	REVISED PER DOB OBJECTIONS
	06/15/09	DOB Submission

Date:	Distribution:

SCALE:

0 1' 2' 4' 8'

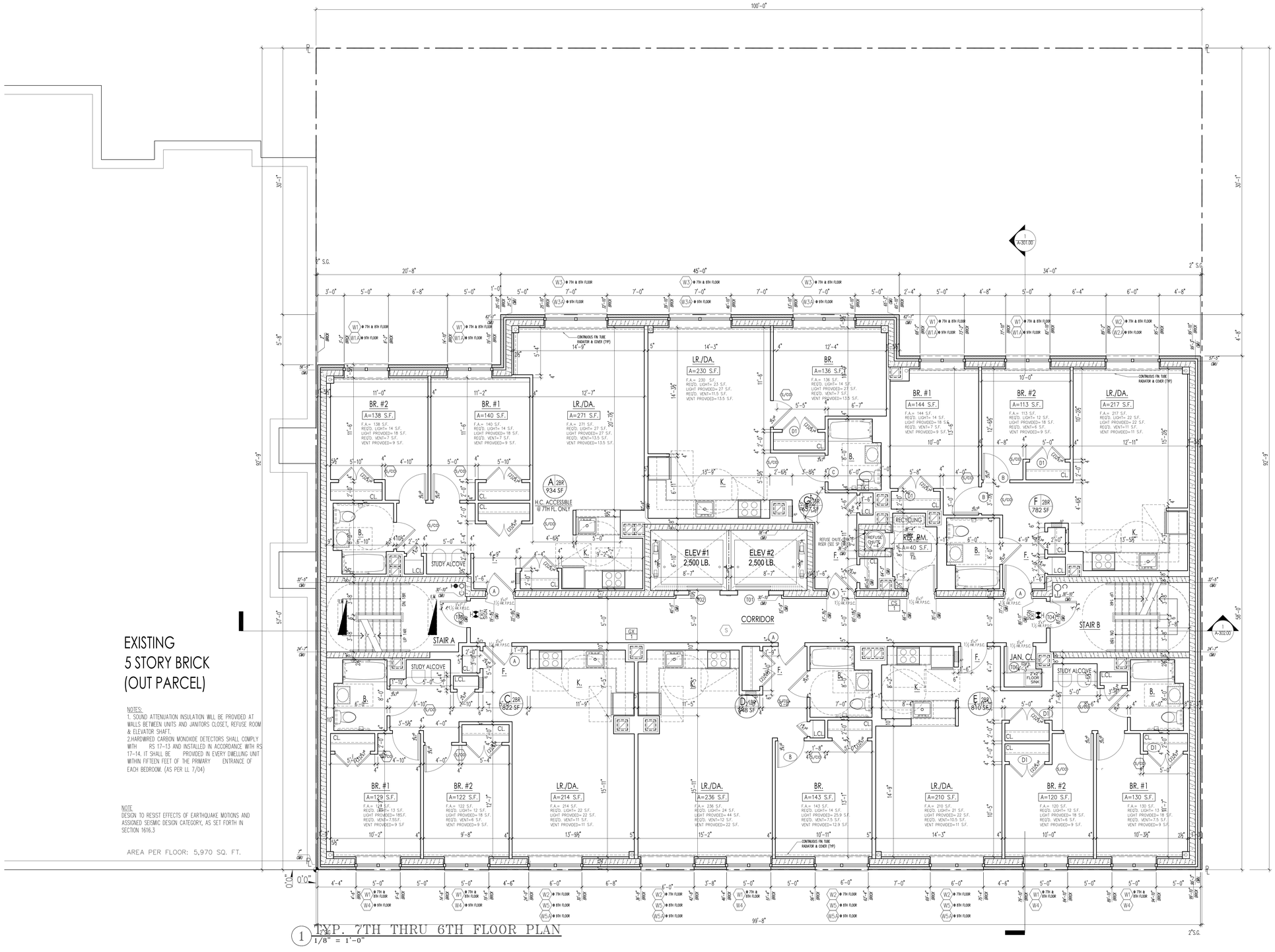
KEY PLAN:

2ND - 6TH FLOOR PLAN

SEAL & SIGNATURE:

PROJECT No:	2006-30
DRAWN BY:	R.LAZAREVIC
CHECKED BY:	S.YAKAS
DWG. No:	A-103.00

DRAWING 14 OF 46



NOTES:
1. SOUND ATTENUATION INSULATION WILL BE PROVIDED AT WALLS BETWEEN UNITS AND JANITORS CLOSET, REFUSE ROOM & ELEVATOR SHAFT.
2.HARDWIRED CARBON MONOXIDE DETECTORS SHALL COMPLY WITH RS 17-13 AND INSTALLED IN ACCORDANCE WITH RS 17-14. IT SHALL BE PROVIDED IN EVERY DWELLING UNIT WITHIN FIFTEEN FEET OF THE PRIMARY ENTRANCE OF EACH BEDROOM. (AS PER LL 7/04)

NOTE
DESIGN TO RESIST EFFECTS OF EARTHQUAKE MOTIONS AND ASSIGNED SEISMIC DESIGN CATEGORY, AS SET FORTH IN SECTION 1616.3

AREA PER FLOOR: 5,970 SQ. FT.

1 TYP. 7TH THRU 6TH FLOOR PLAN
1/8" = 1'-0"

PROJECT:

HENRY PHIPPS PLAZA INCLUSIONARY ONE

325 EAST 25TH STREET
NEW YORK,NY 10010

OWNER:
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No:	Date:	Revision:
		Distribution:
1	09/01/09	REVISED PER DOB OBJECTIONS
	06/15/09	DOB Submission

SCALE:

0 1' 2' 4' 8'

KEY PLAN:

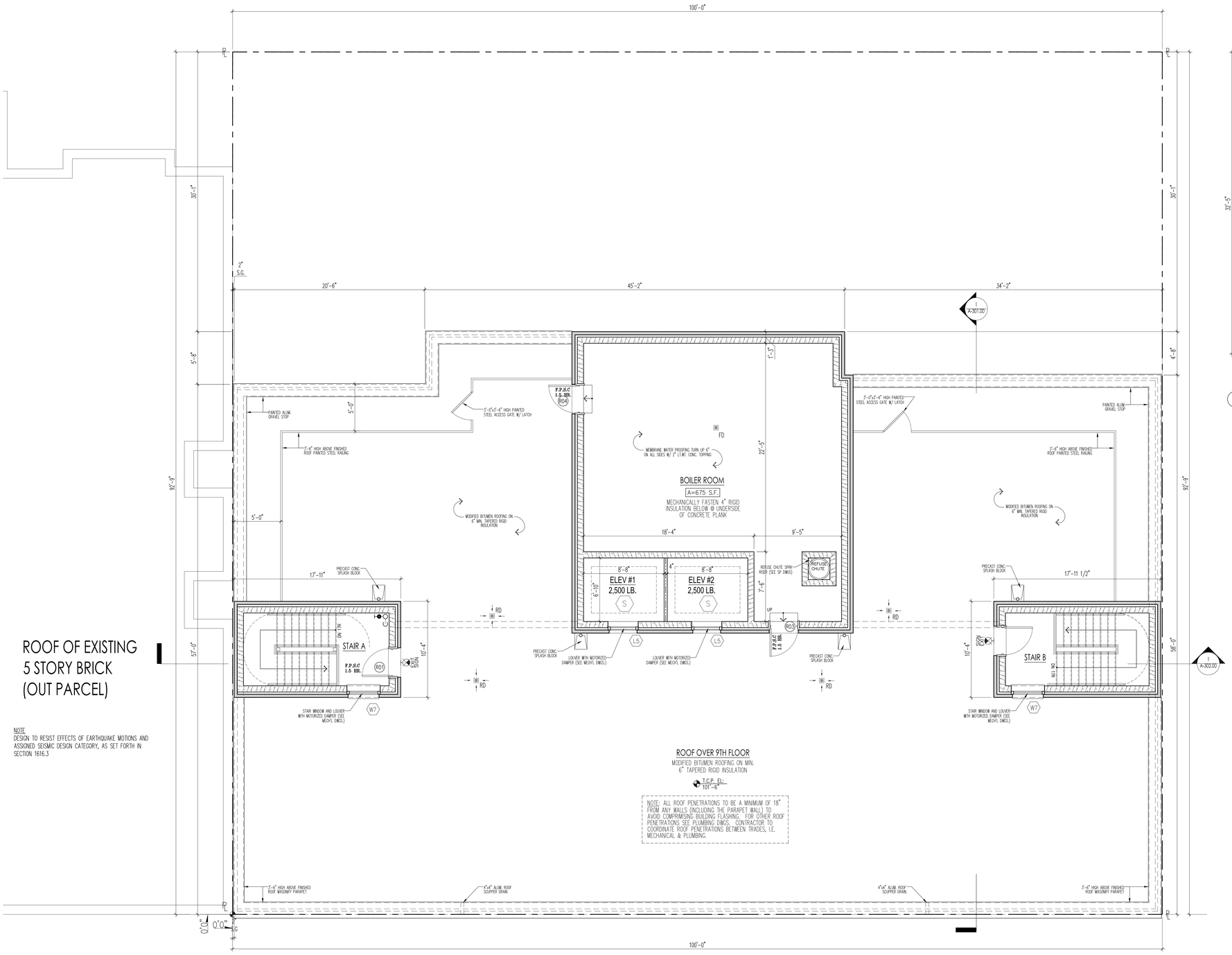
7TH - 9TH FLOOR PLAN

SEAL & SIGNATURE:

PROJECT No: 2006-30
DRAWN BY: R.LAZAREVIC
CHECKED BY: S.TAKAS
DWG. No:

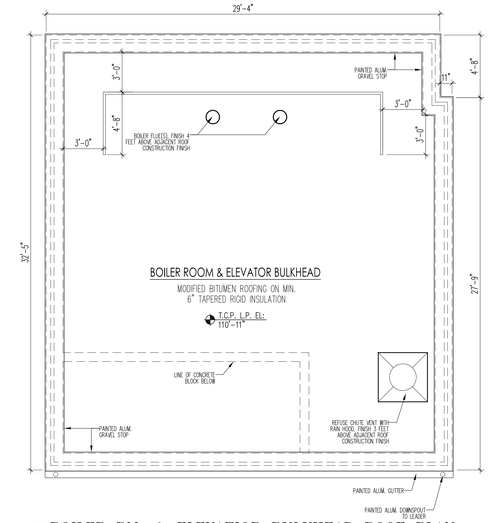
A-104.00

DRAWING 10 OF 46

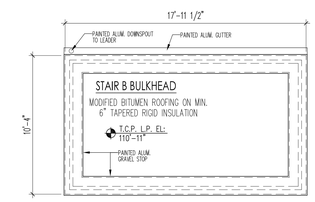


NOTE
DESIGN TO RESIST EFFECTS OF EARTHQUAKE MOTIONS AND ASSIGNED SEISMIC DESIGN CATEGORY, AS SET FORTH IN SECTION 1616.3

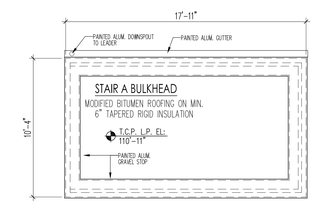
1 ROOF PLAN
1/8" = 1'-0"



2 BOILER RM. & ELEVATIOR BULKHEAD ROOF PLAN
1/4" = 1'-0"



3 STAIR B BULKHEAD ROOF PLAN
1/4" = 1'-0"



4 STAIR A BULKHEAD ROOF PLAN
1/4" = 1'-0"

PROJECT:

HENRY PHIPPS PLAZA INCLUSIONARY ONE

325 EAST 25TH STREET
NEW YORK,NY 10010

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NEW YORK, NEW YORK 10700
TEL: (212) 206-0630
FAX: (212) 645-0048

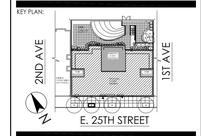
No:	Date:	Revision:
	09/01/09	REVISED PER DOB OBJECTIONS
	06/15/09	DOB Submission

Date:	Distribution:

SCALE:

0 1' 2' 4' 8'

KEY PLAN:



ROOF PLAN

SEAL & SIGNATURE:

PROJECT No:	2006-30
DRAWN BY:	R.LAZAREVIC
CHECKED BY:	S.YAKAS
DWG. No:	A-105.00

DRAWING 16 OF 46

Appendix B

Soil Boring Logs

P.W. GROSSER CONSULTING

Boring Designation:	SB001	**Logged By:**	JMC
Site Address:	325 E. 25th Street, New York, NY	**Project Manager:**	TM
Project Name:	Phipps Plaza	**Project Number:**	PHG1301
Drilling Contractor:	Associated Environmental	**Driller Name:**	Jose
Drilling Method:	Geoprobe	**Borehole Diameter:**	2"
Sampling Method:	Macro-core	**Borehole Depth:**	5'
Start Time:	11:29	**Completion Time:**	12:05
Start Date:	8/22/2013	**Completion Date:**	8/22/2013

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	Notes
0	4	2.0		SM	Dk Brown	Dry	Dark brown fine soil/sand, dry, poorly sorted with pieces of crushed brick and gravel. Wood chips at 5'BGS. No plasticity, moderately graded, no odor.	PID = 0.0 ppm
4	4							
5								
							E.O.B @ 5 feet bgs	

P.W. GROSSER CONSULTING

Boring Designation:	SB002	**Logged By:**	JMC
Site Address:	325 E. 25th Street, New York, NY	**Project Manager:**	TM
Project Name:	Phipps Plaza	**Project Number:**	PHG1301
Drilling Contractor:	Associated Environmental	**Driller Name:**	Jose
Drilling Method:	Geoprobe	**Borehole Diameter:**	2"
Sampling Method:	Macro-core	**Borehole Depth:**	8'
Start Time:	13:25	**Completion Time:**	14:00
Start Date:	8/22/2013	**Completion Date:**	8/22/2013

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	Notes
0	4	1.5		SM	Dk Brown	Dry	Dark brown/gray silt, poorly sorted, dry, broken brick, no odor.	PID = 0.0 ppm
4	4	2.0		SM	Dk Brown	Dry	Dark brown sand/silt, moderately sorted, moderately graded, crushed brick, no odor, dry, no plasticity.	PID = 0.0 ppm
8				SM	Dk Brown	Dry		
							E.O.B. @ 8 feet bgs	
15								
20								
25								
30								
35								
40								

P.W. GROSSER CONSULTING

Boring Designation:	SB003	**Logged By:**	JMC
Site Address:	325 E. 25th Street, New York, NY	**Project Manager:**	TM
Project Name:	Phipps Plaza	**Project Number:**	PHG1301
Drilling Contractor:	Associated Environmental	**Driller Name:**	Jose
Drilling Method:	Geoprobe	**Borehole Diameter:**	2"
Sampling Method:	Macro core	**Borehole Depth:**	5'
Start Time:	11:22	**Completion Time:**	23:28
Start Date:	8/22/2013	**Completion Date:**	8/22/2013

Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	Notes
0	4	4.0		SM	Dk Borwn	Dry	Dark brown/gray soil, poorly sorted, mixed with broken pieces of brick and assorted cobble. No plasticity, moderately graded, fine particles, dry. No odor.	PID = 0.0 ppm
2								PID = 0.0 ppm
4	4							PID = 0.0 ppm
5								
							E.O.B @ 5 feet bgs	
15								
20								
25								
30								
35								
40								

Appendix C

Well Sampling Logs

P.W. GROSSER CONSULTING, Inc

Well Sampling Log

Well Designation:	MW	**Sampled By:**	JMC
Site Address:	325 E. 25th Street, New York, NY	**Project Manager:**	TM
Project Name:	Phipps Plaza	**Project Number:**	PHG1301

Reference Elevation (ft):		**Well Use:**	Monitoring/Observation
Depth to Product (ft):	NA	**Product Elevation (ft):**	NA
Depth to Water (ft):	11.49	**Groundwater Elevation (ft):**	NA
Depth to Bottom (ft):	29.72	**Bottom Elevation (ft):**	NA
Height of Water Column (ft):	18.23	**Well Diameter (in):**	1.5
Standing Water Volume (gal):	1.67	**Calculated Purge Volume (gal):**	5.02
Sample Date:	8/23/2013	**Begin Purge Time:**	13:14
Sample Time:	14:15	**Complete Purge Time:**	14:10
Purge Method:	Peristaltic Pump	**Sample Method:**	Peristaltic Pump
Purge Rate (gpm):	0.09	**Purge Time (min):**	56
Actual Purge Volume (gal):	5.00	**Casing Volumes Removed:**	3.0
Sample Appearance:	clear	**Odors Observed:**	no odor

Analytical Laboratory: Alpha Analytical

Date Shipped:

Analyses Requested:

8260, 8270, Metals (Filtered and Unfiltered), Pesticides, PCB

Notes: Field Parameters were not collected.

Field Indicator Parameters

Reading	Time	Temp. (ºC)	pH	Turbidity NTU	ORP mV	Cond. (mS/cm)	DO mg/L		
1									
2									
3									
4									
5									
6									
7									
8									
9									

Appendix D

Soil Vapor Sampling Logs

P.W. GROSSER CONSULTING

Sample ID	Sample Date	Start Time	End Time	Initial Vacuum (inH_20)	Final Vacuum (inH_20)	Sample Matrix	Canister Size (liters)	Laboratory	Canister ID	Regulator ID	Notes
SV001	8/23/2013	10:43	12:42	-30.14	-8.29	Soil Vapor	2.7	Alpha	143	576	
SV002	8/23/2013	11:37	13:37	-29.59	-6.63	Soil Vapor	2.7	Alpha	462	454	
SV003	8/23/2013	12:36	14:36	-30.32	-7.38	Soil Vapor	2.7	Alpha	114	386	

Appendix E

Laboratory Analytical Report

ANALYTICAL REPORT

Lab Number:	L1316532
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Thomas Melia
Phone:	(631) 589-6353
Project Name:	PHG1301
Project Number:	PHG1301
Report Date:	09/03/13

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

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

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1316532-01	SB001 (3-5')	325 E. 25TH ST, NY, NY	08/22/13 12:05
L1316532-02	SB002 (2-4')	325 E. 25TH ST, NY, NY	08/22/13 13:55
L1316532-03	SB003 (3-5')	325 E. 25TH ST, NY, NY	08/22/13 11:28
L1316532-04	MW	325 E. 25TH ST, NY, NY	08/23/13 14:15
L1316532-05	FIELD BLANK	325 E. 25TH ST, NY, NY	08/23/13 12:25
L1316532-06	TRIP BLANK	325 E. 25TH ST, NY, NY	08/23/13 00:00

Project Name: PHG1301 **Lab Number:** L1316532
Project Number: PHG1301 **Report Date:** 09/03/13

Case Narrative

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

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

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

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

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

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

Project Name: PHG1301 **Lab Number:** L1316532
Project Number: PHG1301 **Report Date:** 09/03/13

Case Narrative (continued)

Report Submission

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

Semivolatile Organics

L1316532-01, -02, and -03 have elevated detection limits due to the dilutions required by the sample matrices.

The WG631808-2/-3 LCS/LCSD recoveries, associated with L1316532-04 and -05, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Pesticides

L1316532-02 has elevated detection limits due to the dilution required by the sample matrix.

The surrogate recoveries for L1316532-02 are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene and decachlorobiphenyl (both 0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

The surrogate recovery for the WG632111-1 Method Blank is below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (29%/20%). The associated sample is non-detect and has acceptable surrogate recoveries; therefore, no further actions were taken.

Total Metals

L1316532-02 has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG631483-4 MS recoveries for calcium (165%) and magnesium (155%), performed on L1316532-04, do not apply because the sample concentration is greater than four times the spike amount added.

The WG631483-4 MS recoveries, performed on L1316532-04, is above the acceptance criteria for potassium (123%) and sodium (122%). A post digestion spike was performed with acceptable recoveries of potassium (109%) and sodium (93%).

Project Name: PHG1301 **Lab Number:** L1316532
Project Number: PHG1301 **Report Date:** 09/03/13

Case Narrative (continued)

Dissolved Metals

The WG631913-4 MS recovery, performed on L1316532-04, is above the acceptance criteria for sodium (121%). A post digestion spike was performed with an acceptable recovery of 114%.

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

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 09/03/13

ORGANICS

VOLATILES

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-02	Date Collected:	08/22/13 13:55
Client ID:	SB002 (2-4')	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	1,8260C		
Analytical Date:	08/31/13 18:55		
Analyst:	BN		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	6.5	1.3	1
1,1-Dichloroethane	ND		ug/kg	0.98	0.12	1
Chloroform	ND		ug/kg	0.98	0.24	1
Carbon tetrachloride	ND		ug/kg	0.65	0.14	1
1,2-Dichloropropane	ND		ug/kg	2.3	0.15	1
Dibromochloromethane	ND		ug/kg	0.65	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	0.98	0.20	1
Tetrachloroethene	ND		ug/kg	0.65	0.09	1
Chlorobenzene	ND		ug/kg	0.65	0.23	1
Trichlorofluoromethane	ND		ug/kg	3.2	0.08	1
1,2-Dichloroethane	ND		ug/kg	0.65	0.10	1
1,1,1-Trichloroethane	ND		ug/kg	0.65	0.07	1
Bromodichloromethane	ND		ug/kg	0.65	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	0.65	0.08	1
cis-1,3-Dichloropropene	ND		ug/kg	0.65	0.08	1
1,1-Dichloropropene	ND		ug/kg	3.2	0.30	1
Bromoform	ND		ug/kg	2.6	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.65	0.11	1
Benzene	ND		ug/kg	0.65	0.08	1
Toluene	ND		ug/kg	0.98	0.07	1
Ethylbenzene	ND		ug/kg	0.65	0.10	1
Chloromethane	ND		ug/kg	3.2	0.51	1
Bromomethane	ND		ug/kg	1.3	0.22	1
Vinyl chloride	ND		ug/kg	1.3	0.09	1
Chloroethane	ND		ug/kg	1.3	0.20	1
1,1-Dichloroethene	ND		ug/kg	0.65	0.13	1
trans-1,2-Dichloroethene	ND		ug/kg	0.98	0.14	1
Trichloroethene	ND		ug/kg	0.65	0.10	1
1,2-Dichlorobenzene	ND		ug/kg	3.2	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	3.2	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	3.2	0.16	1

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-02 Date Collected: 08/22/13 13:55

Client ID: SB002 (2-4') Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methyl tert butyl ether	ND		ug/kg	1.3	0.07	1
p/m-Xylene	ND		ug/kg	1.3	0.21	1
o-Xylene	ND		ug/kg	1.3	0.18	1
cis-1,2-Dichloroethene	ND		ug/kg	0.65	0.10	1
Dibromomethane	ND		ug/kg	6.5	0.11	1
Styrene	ND		ug/kg	1.3	0.20	1
Dichlorodifluoromethane	ND		ug/kg	6.5	0.14	1
Acetone	2.4	J	ug/kg	6.5	2.0	1
Carbon disulfide	ND		ug/kg	6.5	1.3	1
2-Butanone	ND		ug/kg	6.5	0.23	1
Vinyl acetate	ND		ug/kg	6.5	0.31	1
4-Methyl-2-pentanone	ND		ug/kg	6.5	0.16	1
1,2,3-Trichloropropane	ND		ug/kg	6.5	0.15	1
2-Hexanone	ND		ug/kg	6.5	0.12	1
Bromochloromethane	ND		ug/kg	3.2	0.13	1
2,2-Dichloropropane	ND		ug/kg	3.2	0.15	1
1,2-Dibromoethane	ND		ug/kg	2.6	0.12	1
1,3-Dichloropropane	ND		ug/kg	3.2	0.11	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.65	0.21	1
Bromobenzene	ND		ug/kg	3.2	0.14	1
n-Butylbenzene	ND		ug/kg	0.65	0.13	1
sec-Butylbenzene	ND		ug/kg	0.65	0.13	1
tert-Butylbenzene	ND		ug/kg	3.2	0.36	1
o-Chlorotoluene	ND		ug/kg	3.2	0.10	1
p-Chlorotoluene	ND		ug/kg	3.2	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	0.51	1
Hexachlorobutadiene	ND		ug/kg	3.2	0.28	1
Isopropylbenzene	ND		ug/kg	0.65	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.65	0.12	1
Naphthalene	ND		ug/kg	3.2	0.50	1
Acrylonitrile	ND		ug/kg	6.5	0.15	1
n-Propylbenzene	ND		ug/kg	0.65	0.08	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.2	0.11	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.2	0.51	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.2	0.09	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.2	0.37	1
1,4-Dioxane	ND		ug/kg	65	11.	1
1,4-Diethylbenzene	ND		ug/kg	2.6	0.10	1
4-Ethyltoluene	ND		ug/kg	2.6	0.08	1

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-02	Date Collected:	08/22/13 13:55
Client ID:	SB002 (2-4')	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.09	1
Ethyl ether	ND		ug/kg	3.2	0.17	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.2	0.29	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	101		70-130

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-04	Date Collected:	08/23/13 14:15
Client ID:	MW	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/27/13 12:31		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-04 Date Collected: 08/23/13 14:15

Client ID: MW Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-04 Date Collected: 08/23/13 14:15

Client ID: MW Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	102		70-130

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-05	Date Collected:	08/23/13 12:25
Client ID:	FIELD BLANK	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/27/13 12:58		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-05 Date Collected: 08/23/13 12:25

Client ID: FIELD BLANK Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	41.	1
1,4-Diethylbenzene	ND		ug/l	2.0	0.70	1
4-Ethyltoluene	ND		ug/l	2.0	0.70	1

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-05 Date Collected: 08/23/13 12:25

Client ID: FIELD BLANK Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	102		70-130

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/13 12:04
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG631884-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/13 12:04
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG631884-3					
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/27/13 12:04
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG631884-3					
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	41.
1,4-Diethylbenzene	ND		ug/l	2.0	0.70
4-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.65
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/31/13 09:34
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG633263-3					
Methylene chloride	ND		ug/kg	10	2.0
1,1-Dichloroethane	ND		ug/kg	1.5	0.18
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.21
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.31
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30
Tetrachloroethene	ND		ug/kg	1.0	0.14
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.12
1,2-Dichloroethane	ND		ug/kg	1.0	0.15
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.11
Bromodichloromethane	ND		ug/kg	1.0	0.23
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.12
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.13
1,1-Dichloropropene	ND		ug/kg	5.0	0.46
Bromoform	ND		ug/kg	4.0	0.41
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.17
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Chloromethane	ND		ug/kg	5.0	0.78
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.14
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.20
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.21
Trichloroethene	ND		ug/kg	1.0	0.15
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.24

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/31/13 09:34
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG633263-3					
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.15
Dibromomethane	ND		ug/kg	10	0.16
Styrene	ND		ug/kg	2.0	0.31
Dichlorodifluoromethane	ND		ug/kg	10	0.22
Acetone	ND		ug/kg	10	3.1
Carbon disulfide	ND		ug/kg	10	2.0
2-Butanone	ND		ug/kg	10	0.36
Vinyl acetate	ND		ug/kg	10	0.48
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.22
2-Hexanone	ND		ug/kg	10	0.19
Bromochloromethane	ND		ug/kg	5.0	0.20
2,2-Dichloropropane	ND		ug/kg	5.0	0.22
1,2-Dibromoethane	ND		ug/kg	4.0	0.18
1,3-Dichloropropane	ND		ug/kg	5.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.21
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
o-Chlorotoluene	ND		ug/kg	5.0	0.16
p-Chlorotoluene	ND		ug/kg	5.0	0.15
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.79
Hexachlorobutadiene	ND		ug/kg	5.0	0.42
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
Acrylonitrile	ND		ug/kg	10	0.24

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/31/13 09:34
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG633263-3					
Isopropyl Ether	ND		ug/kg	4.0	0.14
tert-Butyl Alcohol	ND		ug/kg	60	0.91
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.17
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.79
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57
Methyl Acetate	ND		ug/kg	20	0.76
Ethyl Acetate	ND		ug/kg	20	0.82
Acrolein	ND		ug/kg	25	9.2
Cyclohexane	ND		ug/kg	20	1.1
1,4-Dioxane	ND		ug/kg	100	17.
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	20	0.27
1,4-Diethylbenzene	ND		ug/kg	4.0	0.16
4-Ethyltoluene	ND		ug/kg	4.0	0.12
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.13
Tetrahydrofuran	ND		ug/kg	20	0.38
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.45
Methyl cyclohexane	ND		ug/kg	4.0	1.3
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	0.42
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	0.58

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/kg

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/31/13 09:34
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02 Batch: WG633263-3					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG631884-1 WG631884-2								
Methylene chloride	83		92		70-130	10		20
1,1-Dichloroethane	89		97		70-130	9		20
Chloroform	90		99		70-130	10		20
Carbon tetrachloride	95		101		63-132	6		20
1,2-Dichloropropane	92		101		70-130	9		20
Dibromochloromethane	91		98		63-130	7		20
1,1,2-Trichloroethane	91		98		70-130	7		20
Tetrachloroethene	89		98		70-130	10		20
Chlorobenzene	87		97		75-130	11		20
Trichlorofluoromethane	75		79		62-150	5		20
1,2-Dichloroethane	83		89		70-130	7		20
1,1,1-Trichloroethane	90		98		67-130	9		20
Bromodichloromethane	88		96		67-130	9		20
trans-1,3-Dichloropropene	89		98		70-130	10		20
cis-1,3-Dichloropropene	90		100		70-130	11		20
1,1-Dichloropropene	92		100		70-130	8		20
Bromoform	93		103		54-136	10		20
1,1,2,2-Tetrachloroethane	96		102		67-130	6		20
Benzene	94		102		70-130	8		20
Toluene	88		97		70-130	10		20
Ethylbenzene	86		96		70-130	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG631884-1 WG631884-2								
Chloromethane	71		74		64-130	4		20
Bromomethane	54		60		39-139	11		20
Vinyl chloride	66		71		55-140	7		20
Chloroethane	60		66		55-138	10		20
1,1-Dichloroethene	87		94		61-145	8		20
trans-1,2-Dichloroethene	91		99		70-130	8		20
Trichloroethene	93		100		70-130	7		20
1,2-Dichlorobenzene	88		97		70-130	10		20
1,3-Dichlorobenzene	88		99		70-130	12		20
1,4-Dichlorobenzene	86		96		70-130	11		20
Methyl tert butyl ether	93		100		63-130	7		20
p/m-Xylene	87		96		70-130	10		20
o-Xylene	85		95		70-130	11		20
cis-1,2-Dichloroethene	92		100		70-130	8		20
Dibromomethane	93		99		70-130	6		20
1,2,3-Trichloropropane	96		108		64-130	12		20
Acrylonitrile	106		110		70-130	4		20
Styrene	84		95		70-130	12		20
Dichlorodifluoromethane	61		63		36-147	3		20
Acetone	93		97		58-148	4		20
Carbon disulfide	79		85		51-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG631884-1 WG631884-2								
2-Butanone	95		96		63-138	1		20
Vinyl acetate	93		99		70-130	6		20
4-Methyl-2-pentanone	94		97		59-130	3		20
2-Hexanone	81		84		57-130	4		20
Bromochloromethane	96		104		70-130	8		20
2,2-Dichloropropane	91		97		63-133	6		20
1,2-Dibromoethane	90		96		70-130	6		20
1,3-Dichloropropane	89		96		70-130	8		20
1,1,1,2-Tetrachloroethane	88		99		64-130	12		20
Bromobenzene	85		96		70-130	12		20
n-Butylbenzene	84		94		53-136	11		20
sec-Butylbenzene	88		99		70-130	12		20
tert-Butylbenzene	87		97		70-130	11		20
o-Chlorotoluene	86		100		70-130	15		20
p-Chlorotoluene	84		95		70-130	12		20
1,2-Dibromo-3-chloropropane	80		89		41-144	11		20
Hexachlorobutadiene	81		94		63-130	15		20
Isopropylbenzene	84		96		70-130	13		20
p-Isopropyltoluene	88		98		70-130	11		20
Naphthalene	91		97		70-130	6		20
n-Propylbenzene	84		94		69-130	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG631884-1 WG631884-2								
1,2,3-Trichlorobenzene	86		94		70-130	9		20
1,2,4-Trichlorobenzene	84		93		70-130	10		20
1,3,5-Trimethylbenzene	87		98		64-130	12		20
1,2,4-Trimethylbenzene	84		94		70-130	11		20
1,4-Dioxane	115		119		56-162	3		20
1,4-Diethylbenzene	84		93		70-130	10		20
4-Ethyltoluene	86		96		70-130	11		20
1,2,4,5-Tetramethylbenzene	84		96		70-130	13		20
Ethyl ether	92		98		59-134	6		20
trans-1,4-Dichloro-2-butene	84		89		70-130	6		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	94		89		70-130
Toluene-d8	98		99		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	103		102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG633263-1 WG633263-2								
Methylene chloride	87		84		70-130	4		30
1,1-Dichloroethane	84		83		70-130	1		30
Chloroform	87		84		70-130	4		30
Carbon tetrachloride	95		91		70-130	4		30
1,2-Dichloropropane	85		83		70-130	2		30
Dibromochloromethane	97		93		70-130	4		30
1,1,2-Trichloroethane	93		89		70-130	4		30
Tetrachloroethene	105		101		70-130	4		30
Chlorobenzene	97		93		70-130	4		30
Trichlorofluoromethane	90		87		70-139	3		30
1,2-Dichloroethane	83		80		70-130	4		30
1,1,1-Trichloroethane	91		87		70-130	4		30
Bromodichloromethane	85		82		70-130	4		30
trans-1,3-Dichloropropene	95		91		70-130	4		30
cis-1,3-Dichloropropene	88		85		70-130	3		30
1,1-Dichloropropene	91		87		70-130	4		30
Bromoform	97		95		70-130	2		30
1,1,2,2-Tetrachloroethane	90		88		70-130	2		30
Benzene	88		85		70-130	3		30
Toluene	98		94		70-130	4		30
Ethylbenzene	97		94		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG633263-1 WG633263-2								
Chloromethane	75		73		52-130	3		30
Bromomethane	84		82		57-147	2		30
Vinyl chloride	82		80		67-130	2		30
Chloroethane	87		84		50-151	4		30
1,1-Dichloroethene	92		90		65-135	2		30
trans-1,2-Dichloroethene	91		88		70-130	3		30
Trichloroethene	90		87		70-130	3		30
1,2-Dichlorobenzene	99		97		70-130	2		30
1,3-Dichlorobenzene	102		99		70-130	3		30
1,4-Dichlorobenzene	100		98		70-130	2		30
Methyl tert butyl ether	86		82		66-130	5		30
p/m-Xylene	101		97		70-130	4		30
o-Xylene	99		94		70-130	5		30
cis-1,2-Dichloroethene	89		86		70-130	3		30
Dibromomethane	86		83		70-130	4		30
Styrene	98		94		70-130	4		30
Dichlorodifluoromethane	75		75		30-146	0		30
Acetone	80		63		54-140	24		30
Carbon disulfide	84		82		59-130	2		30
2-Butanone	89		75		70-130	17		30
Vinyl acetate	78		76		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG633263-1 WG633263-2								
4-Methyl-2-pentanone	81		76		70-130	6		30
1,2,3-Trichloropropane	91		88		68-130	3		30
2-Hexanone	91		76		70-130	18		30
Bromochloromethane	90		88		70-130	2		30
2,2-Dichloropropane	93		89		70-130	4		30
1,2-Dibromoethane	96		92		70-130	4		30
1,3-Dichloropropane	92		88		69-130	4		30
1,1,1,2-Tetrachloroethane	96		94		70-130	2		30
Bromobenzene	98		96		70-130	2		30
n-Butylbenzene	101		98		70-130	3		30
sec-Butylbenzene	102		99		70-130	3		30
tert-Butylbenzene	103		100		70-130	3		30
o-Chlorotoluene	100		97		70-130	3		30
p-Chlorotoluene	97		95		70-130	2		30
1,2-Dibromo-3-chloropropane	89		88		68-130	1		30
Hexachlorobutadiene	105		102		67-130	3		30
Isopropylbenzene	100		97		70-130	3		30
p-Isopropyltoluene	103		100		70-130	3		30
Naphthalene	95		93		70-130	2		30
Acrylonitrile	78		77		70-130	1		30
Isopropyl Ether	80		78		66-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG633263-1 WG633263-2								
tert-Butyl Alcohol	85		82		70-130	4		30
n-Propylbenzene	98		95		70-130	3		30
1,2,3-Trichlorobenzene	98		97		70-130	1		30
1,2,4-Trichlorobenzene	102		100		70-130	2		30
1,3,5-Trimethylbenzene	100		98		70-130	2		30
1,2,4-Trimethylbenzene	103		100		70-130	3		30
Methyl Acetate	74		72		51-146	3		30
Ethyl Acetate	78		74		70-130	5		30
Acrolein	84		80		70-130	5		30
Cyclohexane	86		82		59-142	5		30
1,4-Dioxane	98		93		65-136	5		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		90		50-139	4		30
1,4-Diethylbenzene	104		102		70-130	2		30
4-Ethyltoluene	101		98		70-130	3		30
1,2,4,5-Tetramethylbenzene	103		100		70-130	3		30
Tetrahydrofuran	75		73		66-130	3		30
Ethyl ether	79		77		67-130	3		30
trans-1,4-Dichloro-2-butene	87		85		70-130	2		30
Methyl cyclohexane	94		89		70-130	5		30
Ethyl-Tert-Butyl-Ether	84		81		70-130	4		30
Tertiary-Amyl Methyl Ether	89		86		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 Batch: WG633263-1 WG633263-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		92		70-130
Toluene-d8	107		107		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	99		99		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 QC Batch ID: WG633263-4 WG633263-5 QC Sample: L1316535-14 Client ID: MS Sample												
Methylene chloride	ND	20.1	17	85		15	87		70-130	12		30
1,1-Dichloroethane	ND	20.1	17	85		15	85		70-130	14		30
Chloroform	ND	20.1	18	88		15	84		70-130	20		30
Carbon tetrachloride	ND	20.1	19	92		15	86		70-130	20		30
1,2-Dichloropropane	ND	20.1	17	84		14	82		70-130	16		30
Dibromochloromethane	ND	20.1	17	86		14	81		70-130	20		30
1,1,2-Trichloroethane	ND	20.1	17	85		12	**67**	Q	70-130	**38**	Q	30
Tetrachloroethene	ND	20.1	19	96		16	92		70-130	19		30
Chlorobenzene	ND	20.1	18	88		15	85		70-130	18		30
Trichlorofluoromethane	ND	20.1	19	92		16	90		70-139	16		30
1,2-Dichloroethane	ND	20.1	16	80		14	79		70-130	15		30
1,1,1-Trichloroethane	ND	20.1	19	92		16	89		70-130	17		30
Bromodichloromethane	ND	20.1	17	82		13	75		70-130	23		30
trans-1,3-Dichloropropene	ND	20.1	17	83		14	81		70-130	17		30
cis-1,3-Dichloropropene	ND	20.1	16	81		14	77		70-130	19		30
1,1-Dichloropropene	ND	20.1	18	91		15	87		70-130	19		30
Bromoform	ND	20.1	17	86		15	85		70-130	16		30
1,1,2,2-Tetrachloroethane	ND	20.1	2.2	**11**	Q	ND	**0**	Q	70-130	NC		30
Benzene	ND	20.1	18	87		15	85		70-130	17		30
Toluene	ND	20.1	19	93		16	90		70-130	17		30
Ethylbenzene	ND	20.1	18	89		15	86		70-130	18		30

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 QC Batch ID: WG633263-4 WG633263-5 QC Sample: L1316535-14 Client ID: MS Sample												
Chloromethane	ND	20.1	15	76		14	78		52-130	12		30
Bromomethane	ND	20.1	16	77		14	78		57-147	13		30
Vinyl chloride	ND	20.1	16	79		14	81		67-130	11		30
Chloroethane	ND	20.1	17	83		15	85		50-151	12		30
1,1-Dichloroethene	ND	20.1	19	94		19	108		65-135	1		30
trans-1,2-Dichloroethene	ND	20.1	18	91		16	89		70-130	17		30
Trichloroethene	ND	20.1	31	**152**	Q	28	**160**	Q	70-130	10		30
1,2-Dichlorobenzene	ND	20.1	17	83		14	81		70-130	17		30
1,3-Dichlorobenzene	ND	20.1	17	82		14	81		70-130	16		30
1,4-Dichlorobenzene	ND	20.1	16	81		14	80		70-130	16		30
Methyl tert butyl ether	ND	20.1	16	78		14	79		66-130	12		30
p/m-Xylene	ND	40.3	36	89		30	87		70-130	17		30
o-Xylene	ND	40.3	35	88		30	86		70-130	17		30
cis-1,2-Dichloroethene	ND	20.1	17	86		15	85		70-130	16		30
Dibromomethane	ND	20.1	16	81		14	80		70-130	17		30
Styrene	ND	40.3	35	86		29	83		70-130	18		30
Dichlorodifluoromethane	ND	20.1	16	78		13	77		30-146	15		30
Acetone	5.2J	20.1	30	**147**	Q	29	**167**	Q	54-140	2		30
Carbon disulfide	ND	20.1	17	86		14	81		59-130	20		30
2-Butanone	ND	20.1	22	110		19	111		70-130	13		30
Vinyl acetate	ND	20.1	2.0J	**10**	Q	1.7J	**10**	Q	70-130	16		30

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 QC Batch ID: WG633263-4 WG633263-5 QC Sample: L1316535-14 Client ID: MS Sample												
4-Methyl-2-pentanone	ND	20.1	17	83		14	82		70-130	15		30
1,2,3-Trichloropropane	ND	20.1	17	82		14	81		68-130	16		30
2-Hexanone	ND	20.1	22	110		20	113		70-130	12		30
Bromochloromethane	ND	20.1	17	84		15	85		70-130	14		30
2,2-Dichloropropane	ND	20.1	18	88		15	84		70-130	20		30
1,2-Dibromoethane	ND	20.1	17	85		15	84		70-130	16		30
1,3-Dichloropropane	ND	20.1	17	84		15	84		69-130	15		30
1,1,1,2-Tetrachloroethane	ND	20.1	18	88		15	84		70-130	20		30
Bromobenzene	ND	20.1	17	86		15	84		70-130	18		30
n-Butylbenzene	ND	20.1	16	80		14	79		70-130	16		30
sec-Butylbenzene	ND	20.1	18	87		15	85		70-130	17		30
tert-Butylbenzene	ND	20.1	18	90		15	88		70-130	16		30
o-Chlorotoluene	ND	20.1	18	88		15	86		70-130	16		30
p-Chlorotoluene	ND	20.1	17	82		14	81		70-130	16		30
1,2-Dibromo-3-chloropropane	ND	20.1	16	78		11	**62**	Q	68-130	**38**	Q	30
Hexachlorobutadiene	ND	20.1	15	76		12	68		67-130	25		30
Isopropylbenzene	ND	20.1	18	90		16	89		70-130	16		30
p-Isopropyltoluene	ND	20.1	17	84		15	83		70-130	16		30
Naphthalene	ND	20.1	16	77		13	74		70-130	18		30
Acrylonitrile	ND	20.1	15	74		13	74		70-130	14		30
n-Propylbenzene	ND	20.1	17	85		15	85		70-130	15		30

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02 QC Batch ID: WG633263-4 WG633263-5 QC Sample: L1316535-14 Client ID: MS Sample												
1,2,3-Trichlorobenzene	ND	20.1	15	76		12	71		70-130	20		30
1,2,4-Trichlorobenzene	ND	20.1	15	74		12	70		70-130	20		30
1,3,5-Trimethylbenzene	ND	20.1	17	86		15	86		70-130	15		30
1,2,4-Trimethylbenzene	ND	20.1	17	85		15	85		70-130	15		30
1,4-Dioxane	ND	1010	1000	102		920	105		65-136	11		30
1,4-Diethylbenzene	ND	20.1	16	81		14	80		70-130	15		30
4-Ethyltoluene	ND	20.1	17	85		15	85		70-130	14		30
1,2,4,5-Tetramethylbenzene	ND	20.1	16	78		14	78		70-130	15		30
Ethyl ether	ND	20.1	14	70		13	72		67-130	13		30
trans-1,4-Dichloro-2-butene	ND	20.1	15	74		13	72		70-130	17		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	99		84		70-130
Toluene-d8	105		105		70-130

SEMIVOLATILES

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-01 D	Date Collected:	08/22/13 12:05
Client ID:	SB001 (3-5')	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/27/13 01:17
Analytical Date:	09/01/13 16:33		
Analyst:	PS		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1600	400	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	640	10
Hexachlorobenzene	ND		ug/kg	1200	360	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	540	10
2-Chloronaphthalene	ND		ug/kg	1900	630	10
1,2-Dichlorobenzene	ND		ug/kg	1900	640	10
1,3-Dichlorobenzene	ND		ug/kg	1900	610	10
1,4-Dichlorobenzene	ND		ug/kg	1900	590	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	520	10
2,4-Dinitrotoluene	ND		ug/kg	1900	420	10
2,6-Dinitrotoluene	ND		ug/kg	1900	500	10
Fluoranthene	3100		ug/kg	1200	360	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	590	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	450	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2300	680	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2100	590	10
Hexachlorobutadiene	ND		ug/kg	1900	550	10
Hexachlorocyclopentadiene	ND		ug/kg	5600	1200	10
Hexachloroethane	ND		ug/kg	1600	350	10
Isophorone	ND		ug/kg	1700	520	10
Naphthalene	ND		ug/kg	1900	640	10
Nitrobenzene	ND		ug/kg	1700	460	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1600	410	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	580	10
Bis(2-Ethylhexyl)phthalate	660	J	ug/kg	1900	510	10
Butyl benzyl phthalate	ND		ug/kg	1900	380	10
Di-n-butylphthalate	ND		ug/kg	1900	370	10
Di-n-octylphthalate	ND		ug/kg	1900	480	10
Diethyl phthalate	ND		ug/kg	1900	410	10
Dimethyl phthalate	ND		ug/kg	1900	490	10
Benzo(a)anthracene	1400		ug/kg	1200	380	10

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-01 D Date Collected: 08/22/13 12:05
Client ID: SB001 (3-5') Date Received: 08/23/13
Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	1300	J	ug/kg	1600	470	10
Benzo(b)fluoranthene	1400		ug/kg	1200	390	10
Benzo(k)fluoranthene	860	J	ug/kg	1200	370	10
Chrysene	1600		ug/kg	1200	380	10
Acenaphthylene	ND		ug/kg	1600	360	10
Anthracene	520	J	ug/kg	1200	320	10
Benzo(ghi)perylene	830	J	ug/kg	1600	400	10
Fluorene	ND		ug/kg	1900	560	10
Phenanthrene	2200		ug/kg	1200	380	10
Dibenzo(a,h)anthracene	ND		ug/kg	1200	380	10
Indeno(1,2,3-cd)Pyrene	820	J	ug/kg	1600	430	10
Pyrene	2700		ug/kg	1200	380	10
Biphenyl	ND		ug/kg	4400	640	10
4-Chloroaniline	ND		ug/kg	1900	510	10
2-Nitroaniline	ND		ug/kg	1900	550	10
3-Nitroaniline	ND		ug/kg	1900	540	10
4-Nitroaniline	ND		ug/kg	1900	520	10
Dibenzofuran	ND		ug/kg	1900	650	10
2-Methylnaphthalene	ND		ug/kg	2300	620	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	600	10
Acetophenone	ND		ug/kg	1900	600	10
2,4,6-Trichlorophenol	ND		ug/kg	1200	360	10
P-Chloro-M-Cresol	ND		ug/kg	1900	560	10
2-Chlorophenol	ND		ug/kg	1900	580	10
2,4-Dichlorophenol	ND		ug/kg	1700	630	10
2,4-Dimethylphenol	ND		ug/kg	1900	580	10
2-Nitrophenol	ND		ug/kg	4200	600	10
4-Nitrophenol	ND		ug/kg	2700	630	10
2,4-Dinitrophenol	ND		ug/kg	9300	2600	10
4,6-Dinitro-o-cresol	ND		ug/kg	5000	710	10
Pentachlorophenol	ND		ug/kg	1600	420	10
Phenol	ND		ug/kg	1900	570	10
2-Methylphenol	ND		ug/kg	1900	620	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2800	640	10
2,4,5-Trichlorophenol	ND		ug/kg	1900	630	10
Benzoic Acid	ND		ug/kg	6300	2000	10
Benzyl Alcohol	ND		ug/kg	1900	600	10
Carbazole	ND		ug/kg	1900	420	10

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-01	D	Date Collected:	08/22/13 12:05
Client ID:	SB001 (3-5')		Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	68		0-136
4-Terphenyl-d14	57		18-120

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-02 D	Date Collected:	08/22/13 13:55
Client ID:	SB002 (2-4')	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/27/13 01:17
Analytical Date:	09/01/13 17:01		
Analyst:	PS		
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	1500	380	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	610	10
Hexachlorobenzene	ND		ug/kg	1100	350	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	520	10
2-Chloronaphthalene	ND		ug/kg	1800	600	10
1,2-Dichlorobenzene	ND		ug/kg	1800	610	10
1,3-Dichlorobenzene	ND		ug/kg	1800	580	10
1,4-Dichlorobenzene	ND		ug/kg	1800	560	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	490	10
2,4-Dinitrotoluene	ND		ug/kg	1800	400	10
2,6-Dinitrotoluene	ND		ug/kg	1800	480	10
Fluoranthene	22000		ug/kg	1100	340	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	560	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	430	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	650	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	560	10
Hexachlorobutadiene	ND		ug/kg	1800	520	10
Hexachlorocyclopentadiene	ND		ug/kg	5300	1200	10
Hexachloroethane	ND		ug/kg	1500	340	10
Isophorone	ND		ug/kg	1700	490	10
Naphthalene	ND		ug/kg	1800	620	10
Nitrobenzene	ND		ug/kg	1700	440	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1500	390	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	550	10
Bis(2-Ethylhexyl)phthalate	540	J	ug/kg	1800	490	10
Butyl benzyl phthalate	ND		ug/kg	1800	360	10
Di-n-butylphthalate	ND		ug/kg	1800	360	10
Di-n-octylphthalate	ND		ug/kg	1800	460	10
Diethyl phthalate	ND		ug/kg	1800	390	10
Dimethyl phthalate	ND		ug/kg	1800	470	10
Benzo(a)anthracene	12000		ug/kg	1100	360	10

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-02 D Date Collected: 08/22/13 13:55

Client ID: SB002 (2-4') Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	11000		ug/kg	1500	450	10
Benzo(b)fluoranthene	14000		ug/kg	1100	380	10
Benzo(k)fluoranthene	6200		ug/kg	1100	350	10
Chrysene	13000		ug/kg	1100	360	10
Acenaphthylene	2600		ug/kg	1500	350	10
Anthracene	2200		ug/kg	1100	310	10
Benzo(ghi)perylene	6700		ug/kg	1500	390	10
Fluorene	ND		ug/kg	1800	530	10
Phenanthrene	12000		ug/kg	1100	360	10
Dibenzo(a,h)anthracene	1900		ug/kg	1100	360	10
Indeno(1,2,3-cd)Pyrene	6900		ug/kg	1500	410	10
Pyrene	21000		ug/kg	1100	360	10
Biphenyl	ND		ug/kg	4200	610	10
4-Chloroaniline	ND		ug/kg	1800	490	10
2-Nitroaniline	ND		ug/kg	1800	520	10
3-Nitroaniline	ND		ug/kg	1800	510	10
4-Nitroaniline	ND		ug/kg	1800	500	10
Dibenzofuran	ND		ug/kg	1800	620	10
2-Methylnaphthalene	ND		ug/kg	2200	590	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	580	10
Acetophenone	ND		ug/kg	1800	580	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	350	10
P-Chloro-M-Cresol	ND		ug/kg	1800	540	10
2-Chlorophenol	ND		ug/kg	1800	560	10
2,4-Dichlorophenol	ND		ug/kg	1700	600	10
2,4-Dimethylphenol	ND		ug/kg	1800	550	10
2-Nitrophenol	ND		ug/kg	4000	580	10
4-Nitrophenol	ND		ug/kg	2600	600	10
2,4-Dinitrophenol	ND		ug/kg	8900	2500	10
4,6-Dinitro-o-cresol	ND		ug/kg	4800	680	10
Pentachlorophenol	ND		ug/kg	1500	400	10
Phenol	ND		ug/kg	1800	550	10
2-Methylphenol	ND		ug/kg	1800	600	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2700	610	10
2,4,5-Trichlorophenol	ND		ug/kg	1800	600	10
Benzoic Acid	ND		ug/kg	6000	1900	10
Benzyl Alcohol	ND		ug/kg	1800	570	10
Carbazole	740	J	ug/kg	1800	400	10

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-02	D	Date Collected:	08/22/13 13:55
Client ID:	SB002 (2-4')		Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	58		30-120
2,4,6-Tribromophenol	78		0-136
4-Terphenyl-d14	50		18-120

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-03 D	Date Collected:	08/22/13 11:28
Client ID:	SB003 (3-5')	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8270D	Extraction Date:	08/27/13 01:17
Analytical Date:	09/01/13 17:28		
Analyst:	PS		
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	1300	J	ug/kg	1400	370	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	590	10
Hexachlorobenzene	ND		ug/kg	1100	340	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	500	10
2-Chloronaphthalene	ND		ug/kg	1800	590	10
1,2-Dichlorobenzene	ND		ug/kg	1800	590	10
1,3-Dichlorobenzene	ND		ug/kg	1800	570	10
1,4-Dichlorobenzene	ND		ug/kg	1800	550	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	480	10
2,4-Dinitrotoluene	ND		ug/kg	1800	390	10
2,6-Dinitrotoluene	ND		ug/kg	1800	460	10
Fluoranthene	20000		ug/kg	1100	330	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	550	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	410	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	630	10
Bis(2-chloroethoxy)methane	ND		ug/kg	1900	550	10
Hexachlorobutadiene	ND		ug/kg	1800	510	10
Hexachlorocyclopentadiene	ND		ug/kg	5200	1200	10
Hexachloroethane	ND		ug/kg	1400	330	10
Isophorone	ND		ug/kg	1600	480	10
Naphthalene	1200	J	ug/kg	1800	600	10
Nitrobenzene	ND		ug/kg	1600	430	10
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	1400	380	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	540	10
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	1800	470	10
Butyl benzyl phthalate	ND		ug/kg	1800	350	10
Di-n-butylphthalate	ND		ug/kg	1800	350	10
Di-n-octylphthalate	ND		ug/kg	1800	440	10
Diethyl phthalate	ND		ug/kg	1800	380	10
Dimethyl phthalate	ND		ug/kg	1800	460	10
Benzo(a)anthracene	8200		ug/kg	1100	350	10

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-03 D Date Collected: 08/22/13 11:28

Client ID: SB003 (3-5') Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(a)pyrene	7300		ug/kg	1400	440	10
Benzo(b)fluoranthene	8800		ug/kg	1100	360	10
Benzo(k)fluoranthene	4300		ug/kg	1100	340	10
Chrysene	8600		ug/kg	1100	350	10
Acenaphthylene	790	J	ug/kg	1400	340	10
Anthracene	3600		ug/kg	1100	300	10
Benzo(ghi)perylene	4300		ug/kg	1400	380	10
Fluorene	1200	J	ug/kg	1800	520	10
Phenanthrene	16000		ug/kg	1100	350	10
Dibenzo(a,h)anthracene	1000	J	ug/kg	1100	350	10
Indeno(1,2,3-cd)Pyrene	4300		ug/kg	1400	400	10
Pyrene	17000		ug/kg	1100	350	10
Biphenyl	ND		ug/kg	4100	590	10
4-Chloroaniline	ND		ug/kg	1800	480	10
2-Nitroaniline	ND		ug/kg	1800	510	10
3-Nitroaniline	ND		ug/kg	1800	500	10
4-Nitroaniline	ND		ug/kg	1800	490	10
Dibenzofuran	1000	J	ug/kg	1800	600	10
2-Methylnaphthalene	ND		ug/kg	2200	580	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	560	10
Acetophenone	ND		ug/kg	1800	560	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	340	10
P-Chloro-M-Cresol	ND		ug/kg	1800	520	10
2-Chlorophenol	ND		ug/kg	1800	540	10
2,4-Dichlorophenol	ND		ug/kg	1600	580	10
2,4-Dimethylphenol	ND		ug/kg	1800	540	10
2-Nitrophenol	ND		ug/kg	3900	560	10
4-Nitrophenol	ND		ug/kg	2500	580	10
2,4-Dinitrophenol	ND		ug/kg	8600	2500	10
4,6-Dinitro-o-cresol	ND		ug/kg	4700	660	10
Pentachlorophenol	ND		ug/kg	1400	380	10
Phenol	ND		ug/kg	1800	530	10
2-Methylphenol	ND		ug/kg	1800	580	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2600	590	10
2,4,5-Trichlorophenol	ND		ug/kg	1800	580	10
Benzoic Acid	ND		ug/kg	5800	1800	10
Benzyl Alcohol	ND		ug/kg	1800	560	10
Carbazole	1600	J	ug/kg	1800	390	10

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-03	D	Date Collected:	08/22/13 11:28
Client ID:	SB003 (3-5')		Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY		Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	87		0-136
4-Terphenyl-d14	76		18-120

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-04	Date Collected:	08/23/13 14:15
Client ID:	MW	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	08/27/13 09:58
Analytical Date:	09/01/13 17:30		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-04 Date Collected: 08/23/13 14:15

Client ID: MW Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	69		10-120
4-Terphenyl-d14	87		41-149

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-04	Date Collected:	08/23/13 14:15
Client ID:	MW	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	08/27/13 09:33
Analytical Date:	08/27/13 22:00		
Analyst:	HL		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	0.09	J	ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	0.20		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	0.28		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	26		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	68		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	90		41-149

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-05	Date Collected:	08/23/13 12:25
Client ID:	FIELD BLANK	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D	Extraction Date:	08/27/13 09:58
Analytical Date:	09/01/13 17:56		
Analyst:	PS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40	1
Hexachlorocyclopentadiene	ND		ug/l	20	2.1	1
Isophorone	ND		ug/l	5.0	0.35	1
Nitrobenzene	ND		ug/l	2.0	0.50	1
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39	1
Bis(2-Ethylhexyl)phthalate	2.2	J	ug/l	3.0	1.4	1
Butyl benzyl phthalate	ND		ug/l	5.0	0.46	1
Di-n-butylphthalate	ND		ug/l	5.0	0.54	1
Di-n-octylphthalate	ND		ug/l	5.0	0.53	1
Diethyl phthalate	ND		ug/l	5.0	0.45	1
Dimethyl phthalate	ND		ug/l	5.0	0.45	1
Biphenyl	ND		ug/l	2.0	0.50	1
4-Chloroaniline	ND		ug/l	5.0	0.83	1
2-Nitroaniline	ND		ug/l	5.0	0.40	1
3-Nitroaniline	ND		ug/l	5.0	0.59	1
4-Nitroaniline	ND		ug/l	5.0	0.55	1
Dibenzofuran	ND		ug/l	2.0	0.47	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65	1
Acetophenone	ND		ug/l	5.0	0.55	1

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-05 Date Collected: 08/23/13 12:25

Client ID: FIELD BLANK Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45	1
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50	1
2-Chlorophenol	ND		ug/l	2.0	0.34	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.43	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.2	1
2-Nitrophenol	ND		ug/l	10	0.48	1
4-Nitrophenol	ND		ug/l	10	1.2	1
2,4-Dinitrophenol	ND		ug/l	20	1.4	1
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59	1
Phenol	ND		ug/l	5.0	0.26	1
2-Methylphenol	ND		ug/l	5.0	0.53	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45	1
Benzoic Acid	ND		ug/l	50	1.0	1
Benzyl Alcohol	ND		ug/l	2.0	0.47	1
Carbazole	ND		ug/l	2.0	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	65		10-120
4-Terphenyl-d14	79		41-149

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-05	Date Collected:	08/23/13 12:25
Client ID:	FIELD BLANK	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8270D-SIM	Extraction Date:	08/27/13 09:33
Analytical Date:	08/27/13 22:30		
Analyst:	HL		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.20	0.06	1
2-Chloronaphthalene	ND		ug/l	0.20	0.07	1
Fluoranthene	ND		ug/l	0.20	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.07	1
Naphthalene	ND		ug/l	0.20	0.06	1
Benzo(a)anthracene	ND		ug/l	0.20	0.06	1
Benzo(a)pyrene	ND		ug/l	0.20	0.07	1
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07	1
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07	1
Chrysene	ND		ug/l	0.20	0.05	1
Acenaphthylene	ND		ug/l	0.20	0.05	1
Anthracene	ND		ug/l	0.20	0.06	1
Benzo(ghi)perylene	ND		ug/l	0.20	0.07	1
Fluorene	ND		ug/l	0.20	0.06	1
Phenanthrene	ND		ug/l	0.20	0.06	1
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07	1
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08	1
Pyrene	ND		ug/l	0.20	0.06	1
2-Methylnaphthalene	ND		ug/l	0.20	0.06	1
Pentachlorophenol	ND		ug/l	0.80	0.19	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.07	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	81		10-120
4-Terphenyl-d14	85		41-149

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/27/13 20:30
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 08/27/13 09:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04-05 Batch: WG631691-1					
Acenaphthene	ND		ug/l	0.20	0.06
2-Chloronaphthalene	ND		ug/l	0.20	0.07
Fluoranthene	ND		ug/l	0.20	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.07
Naphthalene	ND		ug/l	0.20	0.06
Benzo(a)anthracene	ND		ug/l	0.20	0.06
Benzo(a)pyrene	ND		ug/l	0.20	0.07
Benzo(b)fluoranthene	ND		ug/l	0.20	0.07
Benzo(k)fluoranthene	ND		ug/l	0.20	0.07
Chrysene	ND		ug/l	0.20	0.05
Acenaphthylene	ND		ug/l	0.20	0.05
Anthracene	ND		ug/l	0.20	0.06
Benzo(ghi)perylene	ND		ug/l	0.20	0.07
Fluorene	ND		ug/l	0.20	0.06
Phenanthrene	ND		ug/l	0.20	0.06
Dibenzo(a,h)anthracene	ND		ug/l	0.20	0.07
Indeno(1,2,3-cd)Pyrene	ND		ug/l	0.20	0.08
Pyrene	ND		ug/l	0.20	0.06
2-Methylnaphthalene	ND		ug/l	0.20	0.06
Pentachlorophenol	ND		ug/l	0.80	0.19
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.07

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/27/13 20:30
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 08/27/13 09:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 04-05 Batch: WG631691-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	76		41-149

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/01/13 12:22
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 08/27/13 01:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG631698-1					
Acenaphthene	ND		ug/kg	130	34.
1,2,4-Trichlorobenzene	ND		ug/kg	160	54.
Hexachlorobenzene	ND		ug/kg	100	31.
Bis(2-chloroethyl)ether	ND		ug/kg	150	46.
2-Chloronaphthalene	ND		ug/kg	160	54.
1,2-Dichlorobenzene	ND		ug/kg	160	54.
1,3-Dichlorobenzene	ND		ug/kg	160	52.
1,4-Dichlorobenzene	ND		ug/kg	160	50.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	36.
2,6-Dinitrotoluene	ND		ug/kg	160	42.
Fluoranthene	ND		ug/kg	100	30.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	50.
4-Bromophenyl phenyl ether	ND		ug/kg	160	38.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	58.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	50.
Hexachlorobutadiene	ND		ug/kg	160	47.
Hexachlorocyclopentadiene	ND		ug/kg	480	110
Hexachloroethane	ND		ug/kg	130	30.
Isophorone	ND		ug/kg	150	44.
Naphthalene	ND		ug/kg	160	55.
Nitrobenzene	ND		ug/kg	150	39.
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/kg	130	35.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	49.
Bis(2-Ethylhexyl)phthalate	ND		ug/kg	160	43.
Butyl benzyl phthalate	ND		ug/kg	160	32.
Di-n-butylphthalate	ND		ug/kg	160	32.
Di-n-octylphthalate	ND		ug/kg	160	41.
Diethyl phthalate	ND		ug/kg	160	35.
Dimethyl phthalate	ND		ug/kg	160	42.
Benzo(a)anthracene	ND		ug/kg	100	32.

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/01/13 12:22
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 08/27/13 01:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG631698-1					
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	34.
Benzo(k)fluoranthene	ND		ug/kg	100	32.
Chrysene	ND		ug/kg	100	32.
Acenaphthylene	ND		ug/kg	130	31.
Anthracene	ND		ug/kg	100	28.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	48.
Phenanthrene	ND		ug/kg	100	32.
Dibenzo(a,h)anthracene	ND		ug/kg	100	32.
Indeno(1,2,3-cd)Pyrene	ND		ug/kg	130	37.
Pyrene	ND		ug/kg	100	32.
Biphenyl	ND		ug/kg	380	55.
4-Chloroaniline	ND		ug/kg	160	44.
2-Nitroaniline	ND		ug/kg	160	47.
3-Nitroaniline	ND		ug/kg	160	46.
4-Nitroaniline	ND		ug/kg	160	45.
Dibenzofuran	ND		ug/kg	160	55.
2-Methylnaphthalene	ND		ug/kg	200	53.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	51.
Acetophenone	ND		ug/kg	160	51.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
P-Chloro-M-Cresol	ND		ug/kg	160	48.
2-Chlorophenol	ND		ug/kg	160	50.
2,4-Dichlorophenol	ND		ug/kg	150	54.
2,4-Dimethylphenol	ND		ug/kg	160	49.
2-Nitrophenol	ND		ug/kg	360	52.
4-Nitrophenol	ND		ug/kg	230	54.
2,4-Dinitrophenol	ND		ug/kg	800	230
4,6-Dinitro-o-cresol	ND		ug/kg	430	61.
Pentachlorophenol	ND		ug/kg	130	36.

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/01/13 12:22
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 08/27/13 01:17

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG631698-1					
Phenol	ND		ug/kg	160	49.
2-Methylphenol	ND		ug/kg	160	53.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	54.
2,4,5-Trichlorophenol	ND		ug/kg	160	54.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	36.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	67		10-120
Nitrobenzene-d5	60		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	64		0-136
4-Terphenyl-d14	70		18-120

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/01/13 13:15
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 08/27/13 09:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG631808-1					
Acenaphthene	ND		ug/l	2.0	0.55
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.67
Hexachlorobenzene	ND		ug/l	2.0	0.65
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.39
2-Chloronaphthalene	ND		ug/l	2.0	0.47
1,2-Dichlorobenzene	ND		ug/l	2.0	0.55
1,3-Dichlorobenzene	ND		ug/l	2.0	0.55
1,4-Dichlorobenzene	ND		ug/l	2.0	0.55
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.45
2,6-Dinitrotoluene	ND		ug/l	5.0	0.46
Fluoranthene	ND		ug/l	2.0	0.51
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.67
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.50
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.40
Hexachlorobutadiene	ND		ug/l	2.0	0.81
Hexachlorocyclopentadiene	ND		ug/l	20	2.1
Hexachloroethane	ND		ug/l	2.0	0.66
Isophorone	ND		ug/l	5.0	0.35
Naphthalene	ND		ug/l	2.0	0.72
Nitrobenzene	ND		ug/l	2.0	0.50
NitrosoDiPhenylAmine(NDPA)/DPA	ND		ug/l	2.0	0.70
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.39
Bis(2-Ethylhexyl)phthalate	ND		ug/l	3.0	1.4
Butyl benzyl phthalate	ND		ug/l	5.0	0.46
Di-n-butylphthalate	ND		ug/l	5.0	0.54
Di-n-octylphthalate	ND		ug/l	5.0	0.53
Diethyl phthalate	ND		ug/l	5.0	0.45
Dimethyl phthalate	ND		ug/l	5.0	0.45
Benzo(a)anthracene	ND		ug/l	2.0	0.82

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/01/13 13:15
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 08/27/13 09:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG631808-1					
Benzo(a)pyrene	ND		ug/l	2.0	0.48
Benzo(b)fluoranthene	ND		ug/l	2.0	0.48
Benzo(k)fluoranthene	ND		ug/l	2.0	0.48
Chrysene	ND		ug/l	2.0	0.56
Acenaphthylene	ND		ug/l	2.0	0.50
Anthracene	ND		ug/l	2.0	0.47
Benzo(ghi)perylene	ND		ug/l	2.0	0.53
Fluorene	ND		ug/l	2.0	0.49
Phenanthrene	ND		ug/l	2.0	0.49
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.48
Indeno(1,2,3-cd)Pyrene	ND		ug/l	2.0	0.48
Pyrene	ND		ug/l	2.0	0.44
Biphenyl	ND		ug/l	2.0	0.50
4-Chloroaniline	ND		ug/l	5.0	0.83
2-Nitroaniline	ND		ug/l	5.0	0.40
3-Nitroaniline	ND		ug/l	5.0	0.59
4-Nitroaniline	ND		ug/l	5.0	0.55
Dibenzofuran	ND		ug/l	2.0	0.47
2-Methylnaphthalene	ND		ug/l	2.0	0.55
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.65
Acetophenone	ND		ug/l	5.0	0.55
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.45
P-Chloro-M-Cresol	ND		ug/l	2.0	0.50
2-Chlorophenol	ND		ug/l	2.0	0.34
2,4-Dichlorophenol	ND		ug/l	5.0	0.43
2,4-Dimethylphenol	ND		ug/l	5.0	1.2
2-Nitrophenol	ND		ug/l	10	0.48
4-Nitrophenol	ND		ug/l	10	1.2
2,4-Dinitrophenol	ND		ug/l	20	1.4
4,6-Dinitro-o-cresol	ND		ug/l	10	0.59
Pentachlorophenol	ND		ug/l	10	1.2

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 09/01/13 13:15
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 08/27/13 09:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04-05 Batch: WG631808-1					
Phenol	ND		ug/l	5.0	0.26
2-Methylphenol	ND		ug/l	5.0	0.53
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.47
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.45
Benzoic Acid	ND		ug/l	50	1.0
Benzyl Alcohol	ND		ug/l	2.0	0.47
Carbazole	ND		ug/l	2.0	0.53

Tentatively Identified Compounds

Unknown	17	J	ug/l
Unknown	4.9	J	ug/l
Unknown	6.2	J	ug/l
Unknown	37	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		21-120
Phenol-d6	31		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	85		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04-05 Batch: WG631691-2 WG631691-3								
Acenaphthene	76		73		37-111	4		40
2-Chloronaphthalene	76		72		40-140	5		40
Fluoranthene	98		91		40-140	7		40
Hexachlorobutadiene	56		56		40-140	0		40
Naphthalene	68		68		40-140	0		40
Benzo(a)anthracene	106		107		40-140	1		40
Benzo(a)pyrene	82		82		40-140	0		40
Benzo(b)fluoranthene	89		88		40-140	1		40
Benzo(k)fluoranthene	88		86		40-140	2		40
Chrysene	84		85		40-140	1		40
Acenaphthylene	76		74		40-140	3		40
Anthracene	70		71		40-140	1		40
Benzo(ghi)perylene	97		98		40-140	1		40
Fluorene	75		72		40-140	4		40
Phenanthrene	88		92		40-140	4		40
Dibenzo(a,h)anthracene	89		92		40-140	3		40
Indeno(1,2,3-cd)Pyrene	103		105		40-140	2		40
Pyrene	94		89		26-127	5		40
2-Methylnaphthalene	73		73		40-140	0		40
Pentachlorophenol	83		79		9-103	5		40
Hexachlorobenzene	84		84		40-140	0		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 04-05 Batch: WG631691-2 WG631691-3								
Hexachloroethane	58		59		40-140	2		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	47		43		21-120
Phenol-d6	34		31		10-120
Nitrobenzene-d5	74		69		23-120
2-Fluorobiphenyl	77		72		15-120
2,4,6-Tribromophenol	72		69		10-120
4-Terphenyl-d14	86		80		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG631698-2 WG631698-3								
Acenaphthene	84		86		31-137	2		50
1,2,4-Trichlorobenzene	79		84		38-107	6		50
Hexachlorobenzene	85		87		40-140	2		50
Bis(2-chloroethyl)ether	81		90		40-140	11		50
2-Chloronaphthalene	88		92		40-140	4		50
1,2-Dichlorobenzene	80		87		40-140	8		50
1,3-Dichlorobenzene	78		84		40-140	7		50
1,4-Dichlorobenzene	79		85		28-104	7		50
3,3'-Dichlorobenzidine	68		70		40-140	3		50
2,4-Dinitrotoluene	**90**	Q	**90**	Q	28-89	0		50
2,6-Dinitrotoluene	85		86		40-140	1		50
Fluoranthene	85		87		40-140	2		50
4-Chlorophenyl phenyl ether	88		89		40-140	1		50
4-Bromophenyl phenyl ether	90		89		40-140	1		50
Bis(2-chloroisopropyl)ether	84		90		40-140	7		50
Bis(2-chloroethoxy)methane	86		93		40-117	8		50
Hexachlorobutadiene	78		85		40-140	9		50
Hexachlorocyclopentadiene	70		78		40-140	11		50
Hexachloroethane	74		82		40-140	10		50
Isophorone	85		91		40-140	7		50
Naphthalene	80		85		40-140	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG631698-2 WG631698-3								
Nitrobenzene	80		88		40-140	10		50
NitrosoDiPhenylAmine(NDPA)/DPA	90		92			2		50
n-Nitrosodi-n-propylamine	84		90		32-121	7		50
Bis(2-Ethylhexyl)phthalate	88		89		40-140	1		50
Butyl benzyl phthalate	77		79		40-140	3		50
Di-n-butylphthalate	87		89		40-140	2		50
Di-n-octylphthalate	84		87		40-140	4		50
Diethyl phthalate	87		88		40-140	1		50
Dimethyl phthalate	91		91		40-140	0		50
Benzo(a)anthracene	88		89		40-140	1		50
Benzo(a)pyrene	90		90		40-140	0		50
Benzo(b)fluoranthene	83		91		40-140	9		50
Benzo(k)fluoranthene	98		92		40-140	6		50
Chrysene	87		90		40-140	3		50
Acenaphthylene	86		87		40-140	1		50
Anthracene	90		90		40-140	0		50
Benzo(ghi)perylene	84		82		40-140	2		50
Fluorene	87		89		40-140	2		50
Phenanthrene	89		89		40-140	0		50
Dibenzo(a,h)anthracene	88		87		40-140	1		50
Indeno(1,2,3-cd)Pyrene	80		78		40-140	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG631698-2 WG631698-3								
Pyrene	85		87		35-142	2		50
Biphenyl	84		84			0		50
4-Chloroaniline	78		84		40-140	7		50
2-Nitroaniline	92		91		47-134	1		50
3-Nitroaniline	50		50		26-129	0		50
4-Nitroaniline	82		84		41-125	2		50
Dibenzofuran	90		91		40-140	1		50
2-Methylnaphthalene	82		86		40-140	5		50
1,2,4,5-Tetrachlorobenzene	86		91		40-117	6		50
Acetophenone	90		96		14-144	6		50
2,4,6-Trichlorophenol	97		99		30-130	2		50
P-Chloro-M-Cresol	95		98		26-103	3		50
2-Chlorophenol	90		96		25-102	6		50
2,4-Dichlorophenol	88		92		30-130	4		50
2,4-Dimethylphenol	95		100		30-130	5		50
2-Nitrophenol	91		96		30-130	5		50
4-Nitrophenol	81		85		11-114	5		50
2,4-Dinitrophenol	76		80		4-130	5		50
4,6-Dinitro-o-cresol	85		83		10-130	2		50
Pentachlorophenol	82		84		17-109	2		50
Phenol	**93**	Q	**98**	Q	26-90	5		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG631698-2 WG631698-3								
2-Methylphenol	95		100		30-130.	5		50
3-Methylphenol/4-Methylphenol	98		106		30-130	8		50
2,4,5-Trichlorophenol	96		96		30-130	0		50
Benzoic Acid	50		58			15		50
Benzyl Alcohol	91		100		40-140	9		50
Carbazole	91		90		54-128	1		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	86		99		25-120
Phenol-d6	86		95		10-120
Nitrobenzene-d5	80		84		23-120
2-Fluorobiphenyl	80		83		30-120
2,4,6-Tribromophenol	93		91		0-136
4-Terphenyl-d14	80		80		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG631808-2 WG631808-3								
Acenaphthene	62		75		37-111	19		30
1,2,4-Trichlorobenzene	43		52		39-98	19		30
Hexachlorobenzene	78		94		40-140	19		30
Bis(2-chloroethyl)ether	62		80		40-140	25		30
2-Chloronaphthalene	55		69		40-140	23		30
1,2-Dichlorobenzene	43		53		40-140	21		30
1,3-Dichlorobenzene	40		49		40-140	20		30
1,4-Dichlorobenzene	41		52		36-97	24		30
3,3'-Dichlorobenzidine	80		102		40-140	24		30
2,4-Dinitrotoluene	91		**112**	Q	24-96	21		30
2,6-Dinitrotoluene	86		110		40-140	24		30
Fluoranthene	83		102		40-140	21		30
4-Chlorophenyl phenyl ether	70		86		40-140	21		30
4-Bromophenyl phenyl ether	77		96		40-140	22		30
Bis(2-chloroisopropyl)ether	64		79		40-140	21		30
Bis(2-chloroethoxy)methane	69		88		40-140	24		30
Hexachlorobutadiene	40		48		40-140	18		30
Hexachlorocyclopentadiene	**14**	Q	**18**	Q	40-140	25		30
Hexachloroethane	**39**	Q	47		40-140	19		30
Isophorone	73		93		40-140	24		30
Naphthalene	50		61		40-140	20		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG631808-2 WG631808-3								
Nitrobenzene	66		81		40-140	20		30
NitrosoDiPhenylAmine(NDPA)/DPA	79		98		40-140	21		30
n-Nitrosodi-n-propylamine	72		93		29-132	25		30
Bis(2-Ethylhexyl)phthalate	101		124		40-140	20		30
Butyl benzyl phthalate	96		120		40-140	22		30
Di-n-butylphthalate	90		109		40-140	19		30
Di-n-octylphthalate	102		129		40-140	23		30
Diethyl phthalate	86		105		40-140	20		30
Dimethyl phthalate	82		103		40-140	23		30
Benzo(a)anthracene	84		103		40-140	20		30
Benzo(a)pyrene	83		99		40-140	18		30
Benzo(b)fluoranthene	81		97		40-140	18		30
Benzo(k)fluoranthene	83		100		40-140	19		30
Chrysene	80		99		40-140	21		30
Acenaphthylene	66		82		45-123	22		30
Anthracene	79		98		40-140	21		30
Benzo(ghi)perylene	80		96		40-140	18		30
Fluorene	74		89		40-140	18		30
Phenanthrene	76		93		40-140	20		30
Dibenzo(a,h)anthracene	84		102		40-140	19		30
Indeno(1,2,3-cd)Pyrene	77		93		40-140	19		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG631808-2 WG631808-3								
Pyrene	82		100		26-127	20		30
Biphenyl	55		68			21		30
4-Chloroaniline	57		80		40-140	**34**	Q	30
2-Nitroaniline	86		107		52-143	22		30
3-Nitroaniline	69		89		25-145	25		30
4-Nitroaniline	83		102		51-143	21		30
Dibenzofuran	67		82		40-140	20		30
2-Methylnaphthalene	51		64		40-140	23		30
1,2,4,5-Tetrachlorobenzene	47		57		2-134	19		30
Acetophenone	68		85		39-129	22		30
2,4,6-Trichlorophenol	75		96		30-130	25		30
P-Chloro-M-Cresol	84		**106**	Q	23-97	23		30
2-Chlorophenol	66		82		27-123	22		30
2,4-Dichlorophenol	70		90		30-130	25		30
2,4-Dimethylphenol	69		85		30-130	21		30
2-Nitrophenol	69		88		30-130	24		30
4-Nitrophenol	43		55		10-80	24		30
2,4-Dinitrophenol	48		68		20-130	**34**	Q	30
4,6-Dinitro-o-cresol	83		108		20-164	26		30
Pentachlorophenol	55		76		9-103	**32**	Q	30
Phenol	36		45		12-110	22		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04-05 Batch: WG631808-2 WG631808-3								
2-Methylphenol	60		75		30-130	22		30
3-Methylphenol/4-Methylphenol	61		78		30-130	24		30
2,4,5-Trichlorophenol	77		100		30-130	26		30
Benzoic Acid	0		0			NC		30
Benzyl Alcohol	64		82			25		30
Carbazole	83		102		55-144	21		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	44		56		21-120
Phenol-d6	34		43		10-120
Nitrobenzene-d5	67		85		23-120
2-Fluorobiphenyl	69		86		15-120
2,4,6-Tribromophenol	78		95		10-120
4-Terphenyl-d14	82		101		41-149

PCBS

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-02	Date Collected:	08/22/13 13:55
Client ID:	SB002 (2-4')	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8082A	Extraction Date:	08/24/13 08:52
Analytical Date:	08/27/13 13:07	Cleanup Method1:	EPA 3665A
Analyst:	JW	Cleanup Date1:	08/26/13
Percent Solids:	87%	Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/26/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	7.14	1	A
Aroclor 1221	ND		ug/kg	36.1	10.9	1	A
Aroclor 1232	ND		ug/kg	36.1	7.67	1	A
Aroclor 1242	ND		ug/kg	36.1	6.86	1	A
Aroclor 1248	ND		ug/kg	36.1	4.37	1	A
Aroclor 1254	ND		ug/kg	36.1	5.70	1	A
Aroclor 1260	ND		ug/kg	36.1	6.27	1	A
Aroclor 1262	ND		ug/kg	36.1	2.67	1	A
Aroclor 1268	ND		ug/kg	36.1	5.24	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-04	Date Collected:	08/23/13 14:15
Client ID:	MW	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	08/26/13 08:45
Analytical Date:	08/27/13 15:59	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/13
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-05	Date Collected:	08/23/13 12:25
Client ID:	FIELD BLANK	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8082A	Extraction Date:	08/26/13 08:45
Analytical Date:	08/28/13 13:27	Cleanup Method1:	EPA 3665A
Analyst:	KB	Cleanup Date1:	08/27/13
		Cleanup Method2:	EPA 3660B
		Cleanup Date2:	08/27/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.055	1	A
Aroclor 1221	ND		ug/l	0.083	0.053	1	A
Aroclor 1232	ND		ug/l	0.083	0.031	1	A
Aroclor 1242	ND		ug/l	0.083	0.060	1	A
Aroclor 1248	ND		ug/l	0.083	0.051	1	A
Aroclor 1254	ND		ug/l	0.083	0.034	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.029	1	A
Aroclor 1268	ND		ug/l	0.083	0.038	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	34		30-150	B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/27/13 13:19
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 08/24/13 08:52
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/26/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/26/13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG631328-1						
Aroclor 1016	ND		ug/kg	31.5	6.23	A
Aroclor 1221	ND		ug/kg	31.5	9.52	A
Aroclor 1232	ND		ug/kg	31.5	6.70	A
Aroclor 1242	ND		ug/kg	31.5	5.99	A
Aroclor 1248	ND		ug/kg	31.5	3.82	A
Aroclor 1254	ND		ug/kg	31.5	4.97	A
Aroclor 1260	ND		ug/kg	31.5	5.48	A
Aroclor 1262	ND		ug/kg	31.5	2.33	A
Aroclor 1268	ND		ug/kg	31.5	4.58	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/27/13 16:11
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 08/26/13 08:45
Cleanup Method1: EPA 3665A
Cleanup Date1: 08/27/13
Cleanup Method2: EPA 3660B
Cleanup Date2: 08/27/13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04-05 Batch: WG631459-1						
Aroclor 1016	ND		ug/l	0.083	0.055	A
Aroclor 1221	ND		ug/l	0.083	0.053	A
Aroclor 1232	ND		ug/l	0.083	0.031	A
Aroclor 1242	ND		ug/l	0.083	0.060	A
Aroclor 1248	ND		ug/l	0.083	0.051	A
Aroclor 1254	ND		ug/l	0.083	0.034	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.029	A
Aroclor 1268	ND		ug/l	0.083	0.038	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHG1301

Project Number: PHG1301

Lab Number: L1316532

Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG631328-2 WG631328-3									
Aroclor 1016	69		66		40-140	4		50	A
Aroclor 1260	52		54		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		64		30-150	A
Decachlorobiphenyl	58		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		68		30-150	B
Decachlorobiphenyl	66		65		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHG1301

Project Number: PHG1301

Lab Number: L1316532

Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04-05 Batch: WG631459-2 WG631459-3									
Aroclor 1016	82		78		40-140	5		50	A
Aroclor 1260	79		77		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		53		30-150	A
Decachlorobiphenyl	73		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		54		30-150	B
Decachlorobiphenyl	80		83		30-150	B

PESTICIDES

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-02 D	Date Collected:	08/22/13 13:55
Client ID:	SB002 (2-4')	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Soil	Extraction Method:	EPA 3546
Analytical Method:	1,8081B	Extraction Date:	08/27/13 05:39
Analytical Date:	08/28/13 13:13	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/27/13
Percent Solids:	87%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	35.1	6.87	20	A
Lindane	ND		ug/kg	14.6	6.53	20	A
Alpha-BHC	ND		ug/kg	14.6	4.15	20	A
Beta-BHC	ND		ug/kg	35.1	13.3	20	A
Heptachlor	ND		ug/kg	17.5	7.86	20	A
Aldrin	ND		ug/kg	35.1	12.4	20	A
Heptachlor epoxide	ND		ug/kg	65.8	19.7	20	A
Endrin	ND		ug/kg	14.6	5.99	20	A
Endrin ketone	ND		ug/kg	35.1	9.03	20	A
Dieldrin	ND		ug/kg	21.9	11.0	20	A
4,4'-DDE	26.4	J	ug/kg	35.1	8.11	20	A
4,4'-DDD	ND		ug/kg	35.1	12.5	20	A
4,4'-DDT	165		ug/kg	65.8	28.2	20	A
Endosulfan I	ND		ug/kg	35.1	8.29	20	A
Endosulfan II	ND		ug/kg	35.1	11.7	20	A
Endosulfan sulfate	ND		ug/kg	14.6	6.68	20	A
Methoxychlor	ND		ug/kg	65.8	20.5	20	A
Toxaphene	ND		ug/kg	658	184.	20	A
cis-Chlordane	30.1	J	ug/kg	43.8	12.2	20	B
trans-Chlordane	ND	PI	ug/kg	43.8	11.6	20	B
Chlordane	ND		ug/kg	285	116.	20	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	A
Decachlorobiphenyl	**0**	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	**0**	Q	30-150	B
Decachlorobiphenyl	**0**	Q	30-150	B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-04	Date Collected:	08/23/13 14:15
Client ID:	MW	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	08/26/13 14:25
Analytical Date:	08/28/13 09:42	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/27/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.010	0.002	1	A
Lindane	ND		ug/l	0.010	0.002	1	A
Alpha-BHC	ND		ug/l	0.010	0.002	1	A
Beta-BHC	ND		ug/l	0.010	0.003	1	A
Heptachlor	ND		ug/l	0.010	0.002	1	A
Aldrin	ND		ug/l	0.010	0.001	1	A
Heptachlor epoxide	ND		ug/l	0.010	0.002	1	A
Endrin	ND		ug/l	0.020	0.002	1	A
Endrin ketone	ND		ug/l	0.020	0.002	1	A
Dieldrin	ND		ug/l	0.020	0.002	1	A
4,4'-DDE	ND		ug/l	0.020	0.002	1	A
4,4'-DDD	ND		ug/l	0.020	0.002	1	A
4,4'-DDT	ND		ug/l	0.020	0.002	1	A
Endosulfan I	ND		ug/l	0.010	0.002	1	A
Endosulfan II	ND		ug/l	0.020	0.003	1	A
Endosulfan sulfate	ND		ug/l	0.020	0.002	1	A
Methoxychlor	ND		ug/l	0.100	0.003	1	A
Toxaphene	ND		ug/l	0.100	0.032	1	A
cis-Chlordane	ND		ug/l	0.010	0.003	1	A
trans-Chlordane	ND		ug/l	0.010	0.003	1	A
Chlordane	ND		ug/l	0.100	0.023	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-05	Date Collected:	08/23/13 12:25
Client ID:	FIELD BLANK	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	EPA 3510C
Analytical Method:	1,8081B	Extraction Date:	08/28/13 08:37
Analytical Date:	08/29/13 12:06	Cleanup Method1:	EPA 3620B
Analyst:	SH	Cleanup Date1:	08/29/13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.020	0.005	1	A
Lindane	ND		ug/l	0.020	0.004	1	A
Alpha-BHC	ND		ug/l	0.020	0.004	1	A
Beta-BHC	ND		ug/l	0.020	0.006	1	A
Heptachlor	ND		ug/l	0.020	0.003	1	A
Aldrin	ND		ug/l	0.020	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	1	A
Endrin	ND		ug/l	0.040	0.004	1	A
Endrin ketone	ND		ug/l	0.040	0.005	1	A
Dieldrin	ND		ug/l	0.040	0.004	1	A
4,4'-DDE	ND		ug/l	0.040	0.004	1	A
4,4'-DDD	ND		ug/l	0.040	0.005	1	A
4,4'-DDT	ND		ug/l	0.040	0.004	1	A
Endosulfan I	ND		ug/l	0.020	0.003	1	A
Endosulfan II	ND		ug/l	0.040	0.005	1	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	1	A
Methoxychlor	ND		ug/l	0.200	0.007	1	A
Toxaphene	ND		ug/l	0.200	0.063	1	A
cis-Chlordane	ND		ug/l	0.020	0.007	1	A
trans-Chlordane	ND		ug/l	0.020	0.006	1	A
Chlordane	ND		ug/l	0.200	0.046	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	34		30-150	B
Decachlorobiphenyl	47		30-150	B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/30/13 08:21
Analyst: SH

Extraction Method: EPA 3510C
Extraction Date: 08/26/13 14:25
Cleanup Method1: EPA 3620B
Cleanup Date1: 08/27/13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG631592-1						
Delta-BHC	ND		ug/l	0.010	0.002	A
Lindane	ND		ug/l	0.010	0.002	A
Alpha-BHC	ND		ug/l	0.010	0.002	A
Beta-BHC	ND		ug/l	0.010	0.003	A
Heptachlor	ND		ug/l	0.010	0.002	A
Aldrin	ND		ug/l	0.010	0.001	A
Heptachlor epoxide	ND		ug/l	0.010	0.002	A
Endrin	ND		ug/l	0.020	0.002	A
Endrin ketone	ND		ug/l	0.020	0.002	A
Dieldrin	ND		ug/l	0.020	0.002	A
4,4'-DDE	ND		ug/l	0.020	0.002	A
4,4'-DDD	ND		ug/l	0.020	0.002	A
4,4'-DDT	ND		ug/l	0.020	0.002	A
Endosulfan I	ND		ug/l	0.010	0.002	A
Endosulfan II	ND		ug/l	0.020	0.003	A
Endosulfan sulfate	ND		ug/l	0.020	0.002	A
Methoxychlor	ND		ug/l	0.100	0.003	A
Toxaphene	ND		ug/l	0.100	0.032	A
cis-Chlordane	ND		ug/l	0.010	0.003	A
trans-Chlordane	ND		ug/l	0.010	0.003	A
Chlordane	ND		ug/l	0.100	0.023	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/28/13 10:52
Analyst: SH

Extraction Method: EPA 3546
Extraction Date: 08/27/13 05:39
Cleanup Method1: EPA 3620B
Cleanup Date1: 08/27/13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG631727-1						
Delta-BHC	ND		ug/kg	1.59	0.312	A
Lindane	ND		ug/kg	0.663	0.296	A
Alpha-BHC	ND		ug/kg	0.663	0.188	A
Beta-BHC	ND		ug/kg	1.59	0.603	A
Heptachlor	ND		ug/kg	0.796	0.357	A
Aldrin	ND		ug/kg	1.59	0.560	A
Heptachlor epoxide	ND		ug/kg	2.98	0.895	A
Endrin	ND		ug/kg	0.663	0.272	A
Endrin ketone	ND		ug/kg	1.59	0.410	A
Dieldrin	ND		ug/kg	0.995	0.497	A
4,4'-DDE	ND		ug/kg	1.59	0.368	A
4,4'-DDD	ND		ug/kg	1.59	0.568	A
4,4'-DDT	ND		ug/kg	2.98	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.376	A
Endosulfan II	ND		ug/kg	1.59	0.532	A
Endosulfan sulfate	ND		ug/kg	0.663	0.303	A
Methoxychlor	ND		ug/kg	2.98	0.928	A
Toxaphene	ND		ug/kg	29.8	8.36	A
cis-Chlordane	ND		ug/kg	1.99	0.554	A
trans-Chlordane	ND		ug/kg	1.99	0.525	A
Chlordane	ND		ug/kg	12.9	5.27	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/29/13 11:28
Analyst: SH

Extraction Method: EPA 3510C
Extraction Date: 08/28/13 08:37
Cleanup Method1: EPA 3620B
Cleanup Date1: 08/29/13

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG632111-1						
Delta-BHC	ND		ug/l	0.020	0.005	A
Lindane	ND		ug/l	0.020	0.004	A
Alpha-BHC	ND		ug/l	0.020	0.004	A
Beta-BHC	ND		ug/l	0.020	0.006	A
Heptachlor	ND		ug/l	0.020	0.003	A
Aldrin	ND		ug/l	0.020	0.002	A
Heptachlor epoxide	ND		ug/l	0.020	0.004	A
Endrin	ND		ug/l	0.040	0.004	A
Endrin ketone	ND		ug/l	0.040	0.005	A
Dieldrin	ND		ug/l	0.040	0.004	A
4,4'-DDE	ND		ug/l	0.040	0.004	A
4,4'-DDD	ND		ug/l	0.040	0.005	A
4,4'-DDT	ND		ug/l	0.040	0.004	A
Endosulfan I	ND		ug/l	0.020	0.003	A
Endosulfan II	ND		ug/l	0.040	0.005	A
Endosulfan sulfate	ND		ug/l	0.040	0.005	A
Methoxychlor	ND		ug/l	0.200	0.007	A
Toxaphene	ND		ug/l	0.200	0.063	A
cis-Chlordane	ND		ug/l	0.020	0.007	A
trans-Chlordane	ND		ug/l	0.020	0.006	A
Chlordane	ND		ug/l	0.200	0.046	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	**29**	Q	30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**20**	Q	30-150	B
Decachlorobiphenyl	43		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG631592-2 WG631592-3									
Delta-BHC	73		66		30-150	11		20	A
Lindane	85		71		30-150	18		20	A
Alpha-BHC	86		70		30-150	20		20	A
Beta-BHC	81		68		30-150	17		20	A
Heptachlor	99		85		30-150	15		20	A
Aldrin	78		69		30-150	12		20	A
Heptachlor epoxide	111		92		30-150	18		20	A
Endrin	104		89		30-150	16		20	A
Endrin ketone	77		67		30-150	14		20	A
Dieldrin	93		79		30-150	17		20	A
4,4'-DDE	90		75		30-150	17		20	A
4,4'-DDD	93		80		30-150	16		20	A
4,4'-DDT	95		81		30-150	16		20	A
Endosulfan I	91		77		30-150	17		20	A
Endosulfan II	90		78		30-150	15		20	A
Endosulfan sulfate	74		66		30-150	12		20	A
Methoxychlor	110		90		30-150	20		20	A
cis-Chlordane	88		72		30-150	19		20	A
trans-Chlordane	87		75		30-150	16		20	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG631592-2 WG631592-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		53		30-150	A
Decachlorobiphenyl	90		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		49		30-150	B
Decachlorobiphenyl	83		75		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG631727-2 WG631727-3									
Delta-BHC	67		69		30-150	3		30	A
Lindane	70		72		30-150	3		30	A
Alpha-BHC	69		72		30-150	4		30	A
Beta-BHC	71		87		30-150	20		30	A
Heptachlor	92		94		30-150	2		30	A
Aldrin	79		81		30-150	3		30	A
Heptachlor epoxide	94		94		30-150	0		30	A
Endrin	99		100		30-150	1		30	A
Endrin ketone	82		82		30-150	0		30	A
Dieldrin	86		87		30-150	1		30	A
4,4'-DDE	79		81		30-150	3		30	A
4,4'-DDD	87		87		30-150	0		30	A
4,4'-DDT	89		90		30-150	1		30	A
Endosulfan I	84		86		30-150	2		30	A
Endosulfan II	89		89		30-150	0		30	A
Endosulfan sulfate	78		80		30-150	3		30	A
Methoxychlor	97		96		30-150	1		30	A
cis-Chlordane	82		82		30-150	0		30	A
trans-Chlordane	81		82		30-150	1		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG631727-2 WG631727-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		74		30-150	A
Decachlorobiphenyl	81		91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		52		30-150	B
Decachlorobiphenyl	85		84		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG632111-2 WG632111-3									
Delta-BHC	51		67		30-150	**28**	Q	20	A
Lindane	52		69		30-150	**27**	Q	20	A
Alpha-BHC	55		72		30-150	**27**	Q	20	A
Beta-BHC	49		62		30-150	**24**	Q	20	A
Heptachlor	55		73		30-150	**29**	Q	20	A
Aldrin	44		60		30-150	**30**	Q	20	A
Heptachlor epoxide	68		91		30-150	**28**	Q	20	A
Endrin	76		98		30-150	**26**	Q	20	A
Endrin ketone	69		88		30-150	**25**	Q	20	A
Dieldrin	67		86		30-150	**26**	Q	20	A
4,4'-DDE	58		77		30-150	**28**	Q	20	A
4,4'-DDD	68		89		30-150	**27**	Q	20	A
4,4'-DDT	65		84		30-150	**25**	Q	20	A
Endosulfan I	64		83		30-150	**26**	Q	20	A
Endosulfan II	69		90		30-150	**26**	Q	20	A
Endosulfan sulfate	65		82		30-150	**23**	Q	20	A
Methoxychlor	72		92		30-150	**24**	Q	20	A
cis-Chlordane	61		79		30-150	**26**	Q	20	A
trans-Chlordane	60		78		30-150	**26**	Q	20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: PHG1301

Project Number: PHG1301

Lab Number: L1316532

Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG632111-2 WG632111-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		53		30-150	A
Decachlorobiphenyl	79		103		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**29**	Q	38		30-150	B
Decachlorobiphenyl	57		70		30-150	B

METALS

Project Name:	PHG1301	**Lab Number:**	L1316532
Project Number:	PHG1301	**Report Date:**	09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-01	Date Collected:	08/22/13 12:05
Client ID:	SB001 (3-5')	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	85%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Lead, Total	1300		mg/kg	2.3	0.09	1	08/27/13 12:23	08/28/13 22:31	EPA 3050B	1,6010C	MG

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-02 Date Collected: 08/22/13 13:55

Client ID: SB002 (2-4') Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	6600		mg/kg	8.7	1.7	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Antimony, Total	1.0	J	mg/kg	4.3	0.69	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Arsenic, Total	6.8		mg/kg	0.87	0.17	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Barium, Total	520		mg/kg	0.87	0.26	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Beryllium, Total	0.22	J	mg/kg	0.43	0.09	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Cadmium, Total	0.95		mg/kg	0.87	0.06	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Calcium, Total	40000		mg/kg	8.7	2.6	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Chromium, Total	14		mg/kg	0.87	0.17	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Cobalt, Total	4.6		mg/kg	1.7	0.43	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Copper, Total	28		mg/kg	0.87	0.17	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Iron, Total	11000		mg/kg	4.3	1.7	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Lead, Total	830		mg/kg	4.3	0.17	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Magnesium, Total	3000		mg/kg	8.7	0.87	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Manganese, Total	200		mg/kg	0.87	0.17	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Mercury, Total	0.50		mg/kg	0.08	0.02	1	08/28/13 08:08	08/28/13 11:39	EPA 7471B	1,7471B	MC
Nickel, Total	12		mg/kg	2.2	0.35	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Potassium, Total	920		mg/kg	220	35.	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Selenium, Total	0.50	J	mg/kg	1.7	0.26	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Silver, Total	ND		mg/kg	0.87	0.17	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Sodium, Total	580		mg/kg	170	26.	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Thallium, Total	ND		mg/kg	1.7	0.35	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Vanadium, Total	24		mg/kg	0.87	0.09	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG
Zinc, Total	500		mg/kg	4.3	0.61	2	08/27/13 12:23	08/28/13 18:11	EPA 3050B	1,6010C	MG

Project Name:	PHG1301	**Lab Number:**	L1316532
Project Number:	PHG1301	**Report Date:**	09/03/13

SAMPLE RESULTS

Lab ID:	L1316532-03	Date Collected:	08/22/13 11:28
Client ID:	SB003 (3-5')	Date Received:	08/23/13
Sample Location:	325 E. 25TH ST, NY, NY	Field Prep:	Not Specified
Matrix:	Soil		
Percent Solids:	91%		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Lead, Total	1900		mg/kg	2.1	0.09	1	08/27/13 12:23	08/28/13 22:34	EPA 3050B	1,6010C	MG

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-04 Date Collected: 08/23/13 14:15

Client ID: MW Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.208		mg/l	0.0100	0.00200	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Antimony, Total	ND		mg/l	0.00200	0.00010	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00223		mg/l	0.00200	0.00010	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Barium, Total	0.06693		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00050	0.00005	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Calcium, Total	83.5		mg/l	1.00	0.320	10	08/26/13 09:39	08/28/13 20:10	EPA 3005A	1,6020A	BM
Chromium, Total	0.00103		mg/l	0.00100	0.00020	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Cobalt, Total	0.00414		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Copper, Total	0.00246		mg/l	0.00100	0.00010	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Iron, Total	0.759		mg/l	0.0500	0.0130	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Lead, Total	0.00180		mg/l	0.00100	0.00020	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Magnesium, Total	69.4		mg/l	0.700	0.230	10	08/26/13 09:39	08/28/13 20:10	EPA 3005A	1,6020A	BM
Manganese, Total	2.107		mg/l	0.00500	0.00100	10	08/26/13 09:39	08/27/13 11:53	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/28/13 08:30	08/28/13 15:22	EPA 7470A	1,7470A	DR
Nickel, Total	0.00387		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Potassium, Total	21.0		mg/l	1.00	0.270	10	08/26/13 09:39	08/28/13 20:10	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Sodium, Total	25.7		mg/l	0.100	0.0150	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Vanadium, Total	0.00175	J	mg/l	0.00500	0.00010	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Zinc, Total	0.00915	J	mg/l	0.01000	0.00120	1	08/26/13 09:39	08/27/13 12:00	EPA 3005A	1,6020A	AK
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.00446	J	mg/l	0.0100	0.00200	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Antimony, Dissolved	0.00157	J	mg/l	0.00200	0.00010	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Arsenic, Dissolved	0.00075		mg/l	0.00050	0.00020	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Barium, Dissolved	0.03329		mg/l	0.00050	0.00010	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Cadmium, Dissolved	0.00008	J	mg/l	0.00020	0.00005	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-04 Date Collected: 08/23/13 14:15

Client ID: MW Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Calcium, Dissolved	84.8		mg/l	2.00	0.640	20	08/24/13 04:00	08/27/13 21:42	NA	1,6020A	BM
Chromium, Dissolved	0.00316		mg/l	0.00100	0.00020	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Cobalt, Dissolved	0.00109		mg/l	0.00050	0.00010	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Copper, Dissolved	0.00126		mg/l	0.00100	0.00010	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Iron, Dissolved	0.376		mg/l	0.0500	0.0130	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Magnesium, Dissolved	71.0		mg/l	1.40	0.460	20	08/24/13 04:00	08/27/13 21:42	NA	1,6020A	BM
Manganese, Dissolved	0.6924		mg/l	0.01000	0.00200	20	08/24/13 04:00	08/27/13 21:42	NA	1,6020A	BM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	08/28/13 08:30	08/28/13 14:40	EPA 7470A	1,7470A	DR
Nickel, Dissolved	0.00259		mg/l	0.00050	0.00010	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Potassium, Dissolved	20.6		mg/l	0.100	0.0270	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Selenium, Dissolved	0.00082	J	mg/l	0.00500	0.00030	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Silver, Dissolved	0.00059		mg/l	0.00040	0.00010	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Sodium, Dissolved	27.2		mg/l	0.100	0.0150	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Thallium, Dissolved	0.00007	J	mg/l	0.00050	0.00003	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Vanadium, Dissolved	0.00145	J	mg/l	0.00500	0.00010	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM
Zinc, Dissolved	0.00729	J	mg/l	0.01000	0.00120	1	08/24/13 04:00	08/27/13 22:06	NA	1,6020A	BM

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-05 Date Collected: 08/23/13 12:25

Client ID: FIELD BLANK Date Received: 08/23/13

Sample Location: 325 E. 25TH ST, NY, NY Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0120		mg/l	0.0100	0.00200	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Antimony, Total	ND		mg/l	0.00200	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Arsenic, Total	0.00034	J	mg/l	0.00200	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Barium, Total	0.00067		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00050	0.00005	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Calcium, Total	0.146		mg/l	0.100	0.0320	1	08/26/13 09:39	08/28/13 19:58	EPA 3005A	1,6020A	BM
Chromium, Total	0.00020	J	mg/l	0.00100	0.00020	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Copper, Total	0.00092	J	mg/l	0.00100	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Iron, Total	0.0332	J	mg/l	0.0500	0.0130	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Lead, Total	0.00045	J	mg/l	0.00100	0.00020	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	08/26/13 09:39	08/28/13 19:58	EPA 3005A	1,6020A	BM
Manganese, Total	0.00108		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/28/13 08:30	08/28/13 15:24	EPA 7470A	1,7470A	DR
Nickel, Total	0.00012	J	mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.0270	1	08/26/13 09:39	08/28/13 19:58	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Sodium, Total	0.0155	J	mg/l	0.100	0.0150	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK
Zinc, Total	0.2136		mg/l	0.01000	0.00120	1	08/26/13 09:39	08/27/13 11:26	EPA 3005A	1,6020A	AK

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 04-05 Batch: WG631483-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Antimony, Total	ND		mg/l	0.00200	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Arsenic, Total	0.00188	J	mg/l	0.00200	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Barium, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Cadmium, Total	ND		mg/l	0.00050	0.00005	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.0320	1	08/26/13 09:39	08/28/13 19:52	1,6020A	BM
Chromium, Total	0.00020	J	mg/l	0.00100	0.00020	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Copper, Total	ND		mg/l	0.00100	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Iron, Total	ND		mg/l	0.0500	0.0130	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Lead, Total	ND		mg/l	0.00100	0.00020	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Magnesium, Total	ND		mg/l	0.0700	0.0230	1	08/26/13 09:39	08/28/13 19:52	1,6020A	BM
Manganese, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Nickel, Total	0.00034	J	mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.0270	1	08/26/13 09:39	08/28/13 19:52	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Silver, Total	ND		mg/l	0.00050	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Sodium, Total	ND		mg/l	0.100	0.0150	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Thallium, Total	0.00003	J	mg/l	0.00050	0.00003	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK
Zinc, Total	ND		mg/l	0.01000	0.00120	1	08/26/13 09:39	08/27/13 11:22	1,6020A	AK

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02 Batch: WG631608-1										
Mercury, Total	ND		mg/kg	0.08	0.02	1	08/28/13 08:08	08/28/13 11:01	1,7471B	MC

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG631869-1										
Aluminum, Total	ND		mg/kg	4.0	0.80	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Antimony, Total	ND		mg/kg	2.0	0.32	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Arsenic, Total	ND		mg/kg	0.40	0.08	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Barium, Total	ND		mg/kg	0.40	0.12	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Beryllium, Total	ND		mg/kg	0.20	0.04	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Cadmium, Total	ND		mg/kg	0.40	0.03	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Calcium, Total	ND		mg/kg	4.0	1.2	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Chromium, Total	ND		mg/kg	0.40	0.08	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Cobalt, Total	ND		mg/kg	0.80	0.20	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Copper, Total	ND		mg/kg	0.40	0.08	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Iron, Total	ND		mg/kg	2.0	0.80	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Lead, Total	ND		mg/kg	2.0	0.08	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Magnesium, Total	ND		mg/kg	4.0	0.40	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Manganese, Total	ND		mg/kg	0.40	0.08	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Nickel, Total	ND		mg/kg	1.0	0.16	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Potassium, Total	ND		mg/kg	100	16.	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Selenium, Total	ND		mg/kg	0.80	0.12	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Silver, Total	ND		mg/kg	0.40	0.08	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Sodium, Total	ND		mg/kg	80	12.	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Thallium, Total	ND		mg/kg	0.80	0.16	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Vanadium, Total	ND		mg/kg	0.40	0.04	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG
Zinc, Total	ND		mg/kg	2.0	0.28	1	08/27/13 12:23	08/28/13 15:49	1,6010C	MG

Prep Information

Digestion Method: EPA 3050B

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 04 Batch: WG631913-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00200	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Antimony, Dissolved	0.00047	J	mg/l	0.00200	0.00010	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00020	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Barium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Calcium, Dissolved	ND		mg/l	0.100	0.0320	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Chromium, Dissolved	0.00021	J	mg/l	0.00100	0.00020	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00010	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Copper, Dissolved	ND		mg/l	0.00100	0.00010	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Iron, Dissolved	ND		mg/l	0.0500	0.0130	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Lead, Dissolved	ND		mg/l	0.00100	0.00020	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0230	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Manganese, Dissolved	0.00024	J	mg/l	0.00050	0.00010	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Nickel, Dissolved	ND		mg/l	0.00050	0.00010	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Potassium, Dissolved	ND		mg/l	0.100	0.0270	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Selenium, Dissolved	ND		mg/l	0.00500	0.00030	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Silver, Dissolved	ND		mg/l	0.00040	0.00010	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Sodium, Dissolved	ND		mg/l	0.100	0.0150	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Thallium, Dissolved	ND		mg/l	0.00050	0.00003	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00010	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM
Zinc, Dissolved	ND		mg/l	0.01000	0.00120	1	08/24/13 04:00	08/27/13 20:45	1,6020A	BM

Prep Information

Digestion Method: NA

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 04 Batch: WG632085-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	08/28/13 08:30	08/28/13 13:46	1,7470A	DR

Project Name: PHG1301 **Lab Number:** L1316532

Project Number: PHG1301 **Report Date:** 09/03/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 04-05 Batch: WG632088-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/28/13 08:30	08/28/13 14:52	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-05 Batch: WG631483-2								
Aluminum, Total	109		-		80-120	-		
Antimony, Total	120		-		80-120	-		
Arsenic, Total	98		-		80-120	-		
Barium, Total	95		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	112		-		80-120	-		
Calcium, Total	107		-		80-120	-		
Chromium, Total	94		-		80-120	-		
Cobalt, Total	99		-		80-120	-		
Copper, Total	103		-		80-120	-		
Iron, Total	95		-		80-120	-		
Lead, Total	101		-		80-120	-		
Magnesium, Total	111		-		80-120	-		
Manganese, Total	94		-		80-120	-		
Nickel, Total	101		-		80-120	-		
Potassium, Total	105		-		80-120	-		
Selenium, Total	108		-		80-120	-		
Silver, Total	100		-		80-120	-		
Sodium, Total	99		-		80-120	-		
Thallium, Total	98		-		80-120	-		
Vanadium, Total	94		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-05 Batch: WG631483-2					
Zinc, Total	109	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 02 Batch: WG631608-2 SRM Lot Number: 0518-10-02					
Mercury, Total	117	-	67-133	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG631869-2 SRM Lot Number: 0518-10-02					
Aluminum, Total	85	-	29-171	-	
Antimony, Total	117	-	4-196	-	
Arsenic, Total	100	-	81-119	-	
Barium, Total	96	-	83-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	94	-	82-117	-	
Calcium, Total	89	-	83-117	-	
Chromium, Total	97	-	80-119	-	
Cobalt, Total	98	-	83-117	-	
Copper, Total	101	-	83-117	-	
Iron, Total	86	-	51-150	-	
Lead, Total	96	-	80-120	-	
Magnesium, Total	92	-	74-126	-	
Manganese, Total	92	-	83-117	-	
Nickel, Total	99	-	82-117	-	
Potassium, Total	91	-	74-126	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	98	-	66-134	-	
Sodium, Total	95	-	74-127	-	
Thallium, Total	101	-	79-120	-	
Vanadium, Total	89	-	79-121	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG631869-2 SRM Lot Number: 0518-10-02					
Zinc, Total	94	-	82-119	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 04 Batch: WG631913-2					
Aluminum, Dissolved	102	-	80-120	-	
Antimony, Dissolved	83	-	80-120	-	
Arsenic, Dissolved	106	-	80-120	-	
Barium, Dissolved	94	-	80-120	-	
Beryllium, Dissolved	108	-	80-120	-	
Cadmium, Dissolved	106	-	80-120	-	
Calcium, Dissolved	98	-	80-120	-	
Chromium, Dissolved	92	-	80-120	-	
Cobalt, Dissolved	95	-	80-120	-	
Copper, Dissolved	95	-	80-120	-	
Iron, Dissolved	94	-	80-120	-	
Lead, Dissolved	86	-	80-120	-	
Magnesium, Dissolved	108	-	80-120	-	
Manganese, Dissolved	92	-	80-120	-	
Nickel, Dissolved	100	-	80-120	-	
Potassium, Dissolved	100	-	80-120	-	
Selenium, Dissolved	107	-	80-120	-	
Silver, Dissolved	95	-	80-120	-	
Sodium, Dissolved	109	-	80-120	-	
Thallium, Dissolved	90	-	80-120	-	
Vanadium, Dissolved	90	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 04 Batch: WG631913-2					
Zinc, Dissolved	104	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 04 Batch: WG632085-2					
Mercury, Dissolved	100	-	70-130	-	
Total Metals - Westborough Lab Associated sample(s): 04-05 Batch: WG632088-2					
Mercury, Total	103	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG631483-4 QC Sample: L1316532-04 Client ID: MW												
Aluminum, Total	0.208	2	2.56	118		-	-		80-120	-		20
Antimony, Total	ND	0.5	0.4924	98		-	-		80-120	-		20
Arsenic, Total	0.00223	0.12	0.1328	109		-	-		80-120	-		20
Barium, Total	0.06693	2	2.036	98		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.05564	111		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.06006	118		-	-		80-120	-		20
Calcium, Total	83.5	10	100	**165**	Q	-	-		80-120	-		20
Chromium, Total	0.00103	0.2	0.1959	97		-	-		80-120	-		20
Cobalt, Total	0.00414	0.5	0.5144	102		-	-		80-120	-		20
Copper, Total	0.00246	0.25	0.2641	105		-	-		80-120	-		20
Iron, Total	0.759	1	1.63	87		-	-		80-120	-		20
Lead, Total	0.00180	0.51	0.5348	104		-	-		80-120	-		20
Magnesium, Total	69.4	10	84.9	**155**	Q	-	-		80-120	-		20
Manganese, Total	2.107	0.5	2.613	101		-	-		80-120	-		20
Nickel, Total	0.00387	0.5	0.5205	103		-	-		80-120	-		20
Potassium, Total	21.0	10	33.3	**123**	Q	-	-		80-120	-		20
Selenium, Total	ND	0.12	0.136	113		-	-		80-120	-		20
Silver, Total	ND	0.05	0.05122	102		-	-		80-120	-		20
Sodium, Total	25.7	10	37.9	**122**	Q	-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1219	102		-	-		80-120	-		20
Vanadium, Total	0.00175J	0.5	0.4891	98		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG631483-4 QC Sample: L1316532-04 Client ID: MW									
Zinc, Total	0.00915J	0.5	0.5762	115	-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 02 QC Batch ID: WG631608-4 QC Sample: L1316427-07 Client ID: MS Sample									
Mercury, Total	1.6	0.166	1.8	120	-	-	70-130	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG631869-4 QC Sample: L1316417-01 Client ID: MS Sample										
Aluminum, Total	3000	175	3300	**172**	Q	-	-	75-125	-	35
Antimony, Total	ND	43.7	44	101		-	-	75-125	-	35
Arsenic, Total	1.4	10.5	12	101		-	-	75-125	-	35
Barium, Total	20.	175	190	97		-	-	75-125	-	35
Beryllium, Total	ND	4.37	4.3	98		-	-	75-125	-	35
Cadmium, Total	0.22J	4.46	4.4	99		-	-	75-125	-	35
Calcium, Total	44000	874	29000	**0**	Q	-	-	75-125	-	35
Chromium, Total	12.	17.5	29	97		-	-	75-125	-	35
Cobalt, Total	4.2	43.7	46	96		-	-	75-125	-	35
Copper, Total	19.	21.8	39	92		-	-	75-125	-	35
Iron, Total	9500	87.4	10000	**572**	Q	-	-	75-125	-	35
Lead, Total	5.8	44.6	47	92		-	-	75-125	-	35
Magnesium, Total	23000	874	12000	**0**	Q	-	-	75-125	-	35
Manganese, Total	150	43.7	160	**23**	Q	-	-	75-125	-	35
Nickel, Total	10.	43.7	50	92		-	-	75-125	-	35
Potassium, Total	620	874	1500	101		-	-	75-125	-	35
Selenium, Total	ND	10.5	10	95		-	-	75-125	-	35
Silver, Total	ND	26.2	26	99		-	-	75-125	-	35
Sodium, Total	170J	874	1000	114		-	-	75-125	-	35
Thallium, Total	ND	10.5	9.6	92		-	-	75-125	-	35
Vanadium, Total	27.	43.7	71	101		-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG631869-4 QC Sample: L1316417-01 Client ID: MS Sample									
Zinc, Total	16.	43.7	55	89	-	-	75-125	-	35

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG631913-4 QC Sample: L1316532-04 Client ID: MW										
Aluminum, Dissolved	0.00446J	2	2.06	103		-	-	80-120	-	20
Antimony, Dissolved	0.00157J	0.5	0.4240	85		-	-	80-120	-	20
Arsenic, Dissolved	0.00075	0.12	0.1256	104		-	-	80-120	-	20
Barium, Dissolved	0.03329	2	1.960	96		-	-	80-120	-	20
Beryllium, Dissolved	ND	0.05	0.05676	114		-	-	80-120	-	20
Cadmium, Dissolved	0.00008J	0.051	0.05542	109		-	-	80-120	-	20
Calcium, Dissolved	84.8	10	95.3	105		-	-	80-120	-	20
Chromium, Dissolved	0.00316	0.2	0.1960	96		-	-	80-120	-	20
Cobalt, Dissolved	0.00109	0.5	0.4972	99		-	-	80-120	-	20
Copper, Dissolved	0.00126	0.25	0.2492	99		-	-	80-120	-	20
Iron, Dissolved	0.376	1	1.34	96		-	-	80-120	-	20
Lead, Dissolved	ND	0.51	0.4624	91		-	-	80-120	-	20
Magnesium, Dissolved	71.0	10	81.2	102		-	-	80-120	-	20
Manganese, Dissolved	0.6924	0.5	1.174	96		-	-	80-120	-	20
Nickel, Dissolved	0.00259	0.5	0.5238	104		-	-	80-120	-	20
Potassium, Dissolved	20.6	10	31.2	106		-	-	80-120	-	20
Selenium, Dissolved	0.00082J	0.12	0.127	106		-	-	80-120	-	20
Silver, Dissolved	0.00059	0.05	0.04812	95		-	-	80-120	-	20
Sodium, Dissolved	27.2	10	39.3	**121**	Q	-	-	80-120	-	20
Thallium, Dissolved	0.00007J	0.12	0.1109	92		-	-	80-120	-	20
Vanadium, Dissolved	0.00145J	0.5	0.4754	95		-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG631913-4 QC Sample: L1316532-04 Client ID: MW										
Zinc, Dissolved	0.00729J	0.5	0.5334	107		-	-	80-120	-	20
Dissolved Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG632085-4 QC Sample: L1316449-01 Client ID: MS Sample										
Mercury, Dissolved	0.1994	0.005	0.2009	**30**	Q	-	-	70-130	-	20
Total Metals - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG632088-4 QC Sample: L1315944-01 Client ID: MS Sample										
Mercury, Total	ND	0.005	0.00567	113		-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG631483-3 QC Sample: L1316532-04 Client ID: MW						
Manganese, Total	2.107	2.033	mg/l	4		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG631483-3 QC Sample: L1316532-04 Client ID: MW					
Aluminum, Total	0.208	0.190	mg/l	9	20
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	0.00223	0.00227	mg/l	2	20
Barium, Total	0.06693	0.06834	mg/l	2	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	0.00103	0.00102	mg/l	1	20
Cobalt, Total	0.00414	0.00406	mg/l	2	20
Copper, Total	0.00246	0.00236	mg/l	4	20
Iron, Total	0.759	0.723	mg/l	5	20
Lead, Total	0.00180	0.00172	mg/l	4	20
Nickel, Total	0.00387	0.00370	mg/l	5	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	25.7	25.6	mg/l	0	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	0.00175J	0.00174J	mg/l	NC	20
Zinc, Total	0.00915J	0.00916J	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG631483-3 QC Sample: L1316532-04 Client ID: MW					
Calcium, Total	83.5	85.0	mg/l	2	20
Magnesium, Total	69.4	71.0	mg/l	2	20
Potassium, Total	21.0	21.3	mg/l	1	20
Total Metals - Westborough Lab Associated sample(s): 02 QC Batch ID: WG631608-3 QC Sample: L1316427-07 Client ID: DUP Sample					
Mercury, Total	1.6	1.6	mg/kg	0	35

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG631869-3 QC Sample: L1316417-01 Client ID: DUP Sample						
Aluminum, Total	3000	2800	mg/kg	7		35
Antimony, Total	ND	ND	mg/kg	NC		35
Arsenic, Total	1.4	14	mg/kg	**164**	Q	35
Barium, Total	20.	18	mg/kg	11		35
Beryllium, Total	ND	ND	mg/kg	NC		35
Cadmium, Total	0.22J	0.42J	mg/kg	NC		35
Calcium, Total	44000	16000	mg/kg	**93**	Q	35
Chromium, Total	12.	8.3	mg/kg	**36**	Q	35
Cobalt, Total	4.2	2.9	mg/kg	**37**	Q	35
Copper, Total	19.	19	mg/kg	0		35
Iron, Total	9500	9200	mg/kg	3		35
Lead, Total	5.8	3.5J	mg/kg	NC		35
Magnesium, Total	23000	5400	mg/kg	**124**	Q	35
Manganese, Total	150	140	mg/kg	7		35
Nickel, Total	10.	7.9	mg/kg	23		35
Potassium, Total	620	570	mg/kg	8		35
Selenium, Total	ND	ND	mg/kg	NC		35
Silver, Total	ND	ND	mg/kg	NC		35
Sodium, Total	170J	110J	mg/kg	NC		35

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG631869-3 QC Sample: L1316417-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	35
Vanadium, Total	27.	20	mg/kg	30	35
Zinc, Total	16.	20	mg/kg	22	35
Dissolved Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG631913-3 QC Sample: L1316532-04 Client ID: MW					
Calcium, Dissolved	84.8	86.1	mg/l	7	20
Magnesium, Dissolved	71.0	72.2	mg/l	5	20
Manganese, Dissolved	0.6924	0.7010	mg/l	4	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG631913-3 QC Sample: L1316532-04 Client ID: MW					
Aluminum, Dissolved	0.00446J	0.00436J	mg/l	NC	20
Antimony, Dissolved	0.00157J	0.00083J	mg/l	NC	20
Arsenic, Dissolved	0.00075	0.00077	mg/l	3	20
Barium, Dissolved	0.03329	0.03327	mg/l	0	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	0.00008J	ND	mg/l	NC	20
Chromium, Dissolved	0.00316	0.00323	mg/l	2	20
Cobalt, Dissolved	0.00109	0.00101	mg/l	8	20
Copper, Dissolved	0.00126	0.00118	mg/l	7	20
Iron, Dissolved	0.376	0.364	mg/l	3	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Nickel, Dissolved	0.00259	0.00237	mg/l	9	20
Potassium, Dissolved	20.6	19.8	mg/l	4	20
Selenium, Dissolved	0.00082J	0.00067J	mg/l	NC	20
Silver, Dissolved	0.00059	ND	mg/l	NC	20
Sodium, Dissolved	27.2	26.6	mg/l	2	20
Thallium, Dissolved	0.00007J	ND	mg/l	NC	20
Vanadium, Dissolved	0.00145J	0.00139J	mg/l	NC	20
Zinc, Dissolved	0.00729J	0.00692J	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 04 QC Batch ID: WG632085-3 QC Sample: L1316449-01 Client ID: DUP Sample					
Mercury, Dissolved	0.1994	0.1978	mg/l	1	20
Total Metals - Westborough Lab Associated sample(s): 04-05 QC Batch ID: WG632088-3 QC Sample: L1315944-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-01
Client ID: SB001 (3-5')
Sample Location: 325 E. 25TH ST, NY, NY
Matrix: Soil

Date Collected: 08/22/13 12:05
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	08/26/13 13:31	30,2540G	DM

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-02
Client ID: SB002 (2-4')
Sample Location: 325 E. 25TH ST, NY, NY
Matrix: Soil

Date Collected: 08/22/13 13:55
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	08/26/13 13:31	30,2540G	DM

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

SAMPLE RESULTS

Lab ID: L1316532-03
Client ID: SB003 (3-5')
Sample Location: 325 E. 25TH ST, NY, NY
Matrix: Soil

Date Collected: 08/22/13 11:28
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	08/26/13 13:31	30,2540G	DM

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG631566-1 QC Sample: L1316530-12 Client ID: DUP Sample						
Solids, Total	93.0	92.6	%	0		20

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 08/24/2013 01:48

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316532-01A	Amber 250ml unpreserved	B	N/A	5	Y	Absent	NYTCL-8270(14),TS(7),PB-TI(180)
L1316532-02A	Vial MeOH preserved	B	N/A	5	Y	Absent	NYTCL-8260HLW(14)
L1316532-02B	Vial water preserved	B	N/A	5	Y	Absent	NYTCL-8260HLW(14)
L1316532-02C	Vial water preserved	B	N/A	5	Y	Absent	NYTCL-8260HLW(14)
L1316532-02G	Plastic 2oz unpreserved for TS	B	N/A	5	Y	Absent	TS(7)
L1316532-02H	Amber 250ml unpreserved	B	N/A	5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1316532-02I	Amber 250ml unpreserved	B	N/A	5	Y	Absent	BE-TI(180),NYTCL-8270(14),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),NYTCL-8081(14),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NYTCL-8082(14),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1316532-03A	Amber 250ml unpreserved	B	N/A	5	Y	Absent	NYTCL-8270(14),TS(7),PB-TI(180)
L1316532-04A	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1316532-04B	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1316532-04C	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316532-04D	Amber 1000ml unpreserved	B	7	5	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316532-04E	Amber 1000ml unpreserved	B	7	5	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316532-04F	Amber 1000ml unpreserved	B	7	5	Y	Absent	NYTCL-8082-1200ML(7)
L1316532-04G	Amber 1000ml unpreserved	B	7	5	Y	Absent	NYTCL-8082-1200ML(7)
L1316532-04H	Amber 1000ml unpreserved	B	7	5	Y	Absent	NYTCL-8081(7)
L1316532-04I	Amber 1000ml unpreserved	B	7	5	Y	Absent	NYTCL-8081(7)
L1316532-04J	Plastic 500ml HNO3 preserved	B	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1316532-04K	Plastic 500ml unpreserved	B	7	5	Y	Absent	FILTER-MET(1)
L1316532-04X	Plastic 500ml HNO3 preserved	B	<2	5	Y	Absent	CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1316532-05A	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1316532-05B	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1316532-05C	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1316532-05D	Amber 1000ml unpreserved	A	7	4	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316532-05E	Amber 1000ml unpreserved	A	7	4	Y	Absent	NYTCL-8270(7),NYTCL-8270-SIM(7)
L1316532-05F	Amber 1000ml unpreserved	A	7	4	Y	Absent	NYTCL-8082-1200ML(7)
L1316532-05G	Amber 1000ml unpreserved	A	7	4	Y	Absent	NYTCL-8082-1200ML(7)
L1316532-05H	Amber 500ml unpreserved	A	7	4	Y	Absent	NYTCL-8081(7)
L1316532-05I	Amber 500ml unpreserved	A	7	4	Y	Absent	NYTCL-8081(7)

*Values in parentheses indicate holding time in days

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316532
Report Date: 09/03/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316532-05J	Plastic 500ml HNO3 preserved	A	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1316532-06A	Vial HCl preserved	A	N/A	4	Y	Absent	HOLD-8260(14)
L1316532-06B	Vial HCl preserved	A	N/A	4	Y	Absent	HOLD-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	PHG1301	**Lab Number:**	L1316532
Project Number:	PHG1301	**Report Date:**	09/03/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers

Project Name:	PHG1301	**Lab Number:**	L1316532
Project Number:	PHG1301	**Report Date:**	09/03/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name: PHG1301 **Lab Number:** L1316532
Project Number: PHG1301 **Report Date:** 09/03/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd In Lab: 8/23/13

ALPHA Job #: L1316532

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: PW Grosser Consulting
Address: 630 Johnson Avenue Bohemia, NY 11716
Phone: (631) 589-6353
Fax:
Email: thomasm@pwgrosser.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PH61301
Project Location: 325 E. 25th St, NY, NY
Project #: PH61301
Project Manager: Thomas Melia
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 8/30/13 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Lead	SVOCs 8270	VOCs 8260	TAL Metals	Pesticides 8081	PCBs 8082	Unfiltered Metals	Filtered Metals					Sample Specific Comments	TOTAL # BOTTLES
16532.1	SB001 (3-5')	08/22/13	1205	S	JMC	X	X												
.2	SB002 (2-4')	↓	1355	S	↓		X	X	X	X	X								
.3	SB003 (3-5')	↓	1128	S	↓	X	X												
.4	MW	08/23/13	1415	GW	↓		X	X	X	X	X	X	X						
.5	Field Blank	08/23/13	1225		↓	X	X	X	X	X	X								

Container Type												
Preservative												

Relinquished By:	Date/Time	Received By:	Date/Time
Julian Calabrese	08/23/13	[signature]	8-23-13 253
[signature]	8-23-13 19:10	[signature]	8/23/13 19:10
[signature]	8/23/13 23:45	[signature]	8/23/13 23:45

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1316546
Client:	P. W. Grosser 630 Johnson Avenue Suite 7 Bohemia, NY 11716
ATTN:	Thomas Melia
Phone:	(631) 589-6353
Project Name:	PHG1301
Project Number:	PHG1301
Report Date:	08/30/13

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

Certifications & Approvals: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), PA (68-02089), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), DOD (L2217.01), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1316546-01	SV001	325 E. 25TH ST, NY, NY	08/23/13 12:42
L1316546-02	SV002	325 E. 25TH ST, NY, NY	08/23/13 13:37
L1316546-03	SV003	325 E. 25TH ST, NY, NY	08/23/13 14:36

Project Name: PHG1301 **Lab Number:** L1316546
Project Number: PHG1301 **Report Date:** 08/30/13

Case Narrative

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

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

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

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

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

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

Project Name:	PHG1301	**Lab Number:**	L1316546
Project Number:	PHG1301	**Report Date:**	08/30/13

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on Auguste 22, 2013. The canister certification results are provided as an addendum.

Samples L1316546-01, -02, -03 and Duplicate WG632292-5 have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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

Authorized Signature: Christopher J. Anderson

Title: Technical Director/Representative

Date: 08/30/13

AIR

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316546-01 D
Client ID: SV001
Sample Location: 325 E. 25TH ST, NY, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/29/13 00:29
Analyst: MB

Date Collected: 08/23/13 12:42
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Propylene	116	1.00	--	200	1.72	--		2
Dichlorodifluoromethane	0.474	0.400	--	2.34	1.98	--		2
Chloromethane	0.898	0.400	--	1.85	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	2.80	0.400	--	6.19	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	3.74	0.400	--	9.87	1.06	--		2
Ethanol	15.7	5.00	--	29.6	9.42	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	762	2.00	--	1810	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	2.32	1.00	--	5.70	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Methylene chloride	ND	2.00	--	ND	6.95	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	103	0.400	--	321	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
Vinyl acetate	ND	0.400	--	ND	1.41	--		2
2-Butanone	15.1	0.400	--	44.5	1.18	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316546-01 D
Client ID: SV001
Sample Location: 325 E. 25TH ST, NY, NY

Date Collected: 08/23/13 12:42
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	2.72	1.00	--	9.80	3.60	--		2
Chloroform	13.4	0.400	--	65.4	1.95	--		2
Tetrahydrofuran	0.596	0.400	--	1.76	1.18	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	11.9	0.400	--	41.9	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	7.74	0.400	--	24.7	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	2.79	0.400	--	9.60	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
2,2,4-Trimethylpentane	3.07	0.400	--	14.3	1.87	--		2
Heptane	8.61	0.400	--	35.3	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	1.79	0.400	--	7.34	1.64	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	26.7	0.400	--	101	1.51	--		2
2-Hexanone	1.95	0.400	--	7.99	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	2.49	0.400	--	10.8	1.74	--		2
p/m-Xylene	8.40	0.800	--	36.5	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2

Project Name: PHG1301 **Lab Number:** L1316546
Project Number: PHG1301 **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316546-01 D
Client ID: SV001
Sample Location: 325 E. 25TH ST, NY, NY

Date Collected: 08/23/13 12:42
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	2.50	0.400	--	10.9	1.74	--		2
4-Ethyltoluene	0.572	0.400	--	2.81	1.97	--		2
1,3,5-Trimethylbenzene	0.520	0.400	--	2.56	1.97	--		2
1,2,4-Trimethylbenzene	2.05	0.400	--	10.1	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	101		60-140

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316546-02 D
Client ID: SV002
Sample Location: 325 E. 25TH ST, NY, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/29/13 01:31
Analyst: MB

Date Collected: 08/23/13 13:37
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Propylene	3.54	1.00	--	6.09	1.72	--		2
Dichlorodifluoromethane	0.560	0.400	--	2.77	1.98	--		2
Chloromethane	0.484	0.400	--	0.999	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	10.1	5.00	--	19.0	9.42	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	522	2.00	--	1240	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	ND	1.00	--	ND	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Methylene chloride	ND	2.00	--	ND	6.95	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	1.02	0.400	--	3.18	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
Vinyl acetate	ND	0.400	--	ND	1.41	--		2
2-Butanone	6.98	0.400	--	20.6	1.18	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2

Project Name: PHG1301 **Lab Number:** L1316546
Project Number: PHG1301 **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316546-02 D
Client ID: SV002
Sample Location: 325 E. 25TH ST, NY, NY

Date Collected: 08/23/13 13:37
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	8.29	1.00	--	29.9	3.60	--		2
Chloroform	0.916	0.400	--	4.47	1.95	--		2
Tetrahydrofuran	0.524	0.400	--	1.55	1.18	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	3.71	0.400	--	13.1	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	3.19	0.400	--	10.2	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	0.608	0.400	--	2.09	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	5.72	0.400	--	23.4	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	0.586	0.400	--	2.40	1.64	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	24.3	0.400	--	91.6	1.51	--		2
2-Hexanone	1.39	0.400	--	5.70	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	2.33	0.400	--	10.1	1.74	--		2
p/m-Xylene	7.80	0.800	--	33.9	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2

Project Name: PHG1301 **Lab Number:** L1316546
Project Number: PHG1301 **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316546-02 D
Client ID: SV002
Sample Location: 325 E. 25TH ST, NY, NY

Date Collected: 08/23/13 13:37
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	2.43	0.400	--	10.6	1.74	--		2
4-Ethyltoluene	0.588	0.400	--	2.89	1.97	--		2
1,3,5-Trimethylbenzene	0.526	0.400	--	2.59	1.97	--		2
1,2,4-Trimethylbenzene	2.03	0.400	--	9.98	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	104		60-140

Project Name: PHG1301 **Lab Number:** L1316546
Project Number: PHG1301 **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316546-03 D
Client ID: SV003
Sample Location: 325 E. 25TH ST, NY, NY
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 08/29/13 02:02
Analyst: MB

Date Collected: 08/23/13 14:36
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Propylene	14.0	1.00	--	24.1	1.72	--		2
Dichlorodifluoromethane	0.646	0.400	--	3.19	1.98	--		2
Chloromethane	1.08	0.400	--	2.23	0.826	--		2
Freon-114	ND	0.400	--	ND	2.80	--		2
Vinyl chloride	ND	0.400	--	ND	1.02	--		2
1,3-Butadiene	ND	0.400	--	ND	0.885	--		2
Bromomethane	ND	0.400	--	ND	1.55	--		2
Chloroethane	ND	0.400	--	ND	1.06	--		2
Ethanol	18.8	5.00	--	35.4	9.42	--		2
Vinyl bromide	ND	0.400	--	ND	1.75	--		2
Acetone	815	2.00	--	1940	4.75	--		2
Trichlorofluoromethane	ND	0.400	--	ND	2.25	--		2
Isopropanol	1.95	1.00	--	4.79	2.46	--		2
1,1-Dichloroethene	ND	0.400	--	ND	1.59	--		2
Methylene chloride	2.07	2.00	--	7.19	6.95	--		2
3-Chloropropene	ND	0.400	--	ND	1.25	--		2
Carbon disulfide	2.22	0.400	--	6.91	1.25	--		2
Freon-113	ND	0.400	--	ND	3.07	--		2
trans-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2
1,1-Dichloroethane	ND	0.400	--	ND	1.62	--		2
Methyl tert butyl ether	ND	0.400	--	ND	1.44	--		2
Vinyl acetate	ND	0.400	--	ND	1.41	--		2
2-Butanone	9.66	0.400	--	28.5	1.18	--		2
cis-1,2-Dichloroethene	ND	0.400	--	ND	1.59	--		2

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

SAMPLE RESULTS

Lab ID: L1316546-03 D
Client ID: SV003
Sample Location: 325 E. 25TH ST, NY, NY

Date Collected: 08/23/13 14:36
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	12.2	1.00	--	44.0	3.60	--		2
Chloroform	18.0	0.400	--	87.9	1.95	--		2
Tetrahydrofuran	0.526	0.400	--	1.55	1.18	--		2
1,2-Dichloroethane	ND	0.400	--	ND	1.62	--		2
n-Hexane	4.44	0.400	--	15.6	1.41	--		2
1,1,1-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Benzene	3.07	0.400	--	9.81	1.28	--		2
Carbon tetrachloride	ND	0.400	--	ND	2.52	--		2
Cyclohexane	0.578	0.400	--	1.99	1.38	--		2
1,2-Dichloropropane	ND	0.400	--	ND	1.85	--		2
Bromodichloromethane	ND	0.400	--	ND	2.68	--		2
1,4-Dioxane	ND	0.400	--	ND	1.44	--		2
Trichloroethene	ND	0.400	--	ND	2.15	--		2
2,2,4-Trimethylpentane	ND	0.400	--	ND	1.87	--		2
Heptane	5.14	0.400	--	21.1	1.64	--		2
cis-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
4-Methyl-2-pentanone	0.736	0.400	--	3.02	1.64	--		2
trans-1,3-Dichloropropene	ND	0.400	--	ND	1.82	--		2
1,1,2-Trichloroethane	ND	0.400	--	ND	2.18	--		2
Toluene	22.3	0.400	--	84.0	1.51	--		2
2-Hexanone	1.32	0.400	--	5.41	1.64	--		2
Dibromochloromethane	ND	0.400	--	ND	3.41	--		2
1,2-Dibromoethane	ND	0.400	--	ND	3.07	--		2
Tetrachloroethene	ND	0.400	--	ND	2.71	--		2
Chlorobenzene	ND	0.400	--	ND	1.84	--		2
Ethylbenzene	2.00	0.400	--	8.69	1.74	--		2
p/m-Xylene	7.14	0.800	--	31.0	3.47	--		2
Bromoform	ND	0.400	--	ND	4.14	--		2

Project Name: PHG1301 **Lab Number:** L1316546
Project Number: PHG1301 **Report Date:** 08/30/13

SAMPLE RESULTS

Lab ID: L1316546-03 D
Client ID: SV003
Sample Location: 325 E. 25TH ST, NY, NY

Date Collected: 08/23/13 14:36
Date Received: 08/23/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Styrene	ND	0.400	--	ND	1.70	--		2
1,1,2,2-Tetrachloroethane	ND	0.400	--	ND	2.75	--		2
o-Xylene	2.14	0.400	--	9.30	1.74	--		2
4-Ethyltoluene	0.530	0.400	--	2.61	1.97	--		2
1,3,5-Trimethylbenzene	0.480	0.400	--	2.36	1.97	--		2
1,2,4-Trimethylbenzene	1.82	0.400	--	8.95	1.97	--		2
Benzyl chloride	ND	0.400	--	ND	2.07	--		2
1,3-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,4-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2-Dichlorobenzene	ND	0.400	--	ND	2.40	--		2
1,2,4-Trichlorobenzene	ND	0.400	--	ND	2.97	--		2
Hexachlorobutadiene	ND	0.400	--	ND	4.27	--		2

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	103		60-140

Project Name: PHG1301 **Lab Number:** L1316546

Project Number: PHG1301 **Report Date:** 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/28/13 15:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG632292-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1

Project Name: PHG1301 **Lab Number:** L1316546

Project Number: PHG1301 **Report Date:** 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/28/13 15:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG632292-4								
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1

Project Name: PHG1301 **Lab Number:** L1316546

Project Number: PHG1301 **Report Date:** 08/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 08/28/13 15:58

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01-03 Batch: WG632292-4								
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG632292-3								
Chlorodifluoromethane	86		-		70-130	-		
Propylene	91		-		70-130	-		
Propane	**67**	Q	-		70-130	-		
Dichlorodifluoromethane	97		-		70-130	-		
Chloromethane	95		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	100		-		70-130	-		
Methanol	86		-		70-130	-		
Vinyl chloride	98		-		70-130	-		
1,3-Butadiene	100		-		70-130	-		
Butane	86		-		70-130	-		
Bromomethane	100		-		70-130	-		
Chloroethane	100		-		70-130	-		
Ethyl Alcohol	97		-		70-130	-		
Dichlorofluoromethane	91		-		70-130	-		
Vinyl bromide	102		-		70-130	-		
Acrolein	98		-		70-130	-		
Acetone	107		-		70-130	-		
Acetonitrile	89		-		70-130	-		
Trichlorofluoromethane	102		-		70-130	-		
iso-Propyl Alcohol	89		-		70-130	-		
Acrylonitrile	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG632292-3								
Pentane	88		-		70-130	-		
Ethyl ether	83		-		70-130	-		
1,1-Dichloroethene	101		-		70-130	-		
tert-Butyl Alcohol	93		-		70-130	-		
Methylene chloride	91		-		70-130	-		
3-Chloropropene	88		-		70-130	-		
Carbon disulfide	98		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	104		-		70-130	-		
trans-1,2-Dichloroethene	91		-		70-130	-		
1,1-Dichloroethane	100		-		70-130	-		
Methyl tert butyl ether	101		-		70-130	-		
Vinyl acetate	102		-		70-130	-		
2-Butanone	92		-		70-130	-		
cis-1,2-Dichloroethene	111		-		70-130	-		
Ethyl Acetate	88		-		70-130	-		
Chloroform	105		-		70-130	-		
Tetrahydrofuran	93		-		70-130	-		
2,2-Dichloropropane	98		-		70-130	-		
1,2-Dichloroethane	101		-		70-130	-		
n-Hexane	101		-		70-130	-		
Isopropyl Ether	88		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG632292-3								
Ethyl-Tert-Butyl-Ether	94		-		70-130	-		
1,1,1-Trichloroethane	103		-		70-130	-		
1,1-Dichloropropene	93		-		70-130	-		
Benzene	88		-		70-130	-		
Carbon tetrachloride	107		-		70-130	-		
Cyclohexane	95		-		70-130	-		
Tertiary-Amyl Methyl Ether	95		-		70-130	-		
Dibromomethane	95		-		70-130	-		
1,2-Dichloropropane	96		-		70-130	-		
Bromodichloromethane	99		-		70-130	-		
1,4-Dioxane	96		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	97		-		70-130	-		
Methyl methacrylate	101		-		70-130	-		
Heptane	95		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	93		-		70-130	-		
trans-1,3-Dichloropropene	94		-		70-130	-		
1,1,2-Trichloroethane	103		-		70-130	-		
Toluene	98		-		70-130	-		
1,3-Dichloropropane	92		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG632292-3								
2-Hexanone	99		-		70-130	-		
Dibromochloromethane	99		-		70-130	-		
1,2-Dibromoethane	90		-		70-130	-		
Butyl Acetate	102		-		70-130	-		
Octane	93		-		70-130	-		
Tetrachloroethene	99		-		70-130	-		
1,1,1,2-Tetrachloroethane	99		-		70-130	-		
Chlorobenzene	101		-		70-130	-		
Ethylbenzene	101		-		70-130	-		
p/m-Xylene	101		-		70-130	-		
Bromoform	97		-		70-130	-		
Styrene	103		-		70-130	-		
1,1,2,2-Tetrachloroethane	101		-		70-130	-		
o-Xylene	103		-		70-130	-		
1,2,3-Trichloropropane	91		-		70-130	-		
Nonane (C9)	99		-		70-130	-		
Isopropylbenzene	98		-		70-130	-		
Bromobenzene	94		-		70-130	-		
o-Chlorotoluene	96		-		70-130	-		
n-Propylbenzene	96		-		70-130	-		
p-Chlorotoluene	91		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 Batch: WG632292-3								
4-Ethyltoluene	92		-		70-130	-		
1,3,5-Trimethylbenzene	102		-		70-130	-		
tert-Butylbenzene	98		-		70-130	-		
1,2,4-Trimethylbenzene	105		-		70-130	-		
Decane (C10)	93		-		70-130	-		
Benzyl chloride	93		-		70-130	-		
1,3-Dichlorobenzene	101		-		70-130	-		
1,4-Dichlorobenzene	101		-		70-130	-		
sec-Butylbenzene	96		-		70-130	-		
p-Isopropyltoluene	91		-		70-130	-		
1,2-Dichlorobenzene	100		-		70-130	-		
n-Butylbenzene	97		-		70-130	-		
1,2-Dibromo-3-chloropropane	110		-		70-130	-		
Undecane	99		-		70-130	-		
Dodecane (C12)	**212**	Q	-		70-130	-		
1,2,4-Trichlorobenzene	112		-		70-130	-		
Naphthalene	102		-		70-130	-		
1,2,3-Trichlorobenzene	110		-		70-130	-		
Hexachlorobutadiene	120		-		70-130	-		

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG632292-5 QC Sample: L1316546-01 Client ID: SV001						
Propylene	116	121	ppbV	4		25
Dichlorodifluoromethane	0.474	0.494	ppbV	4		25
Chloromethane	0.898	0.994	ppbV	10		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	2.80	2.72	ppbV	3		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	3.74	4.05	ppbV	8		25
Ethanol	15.7	15.6	ppbV	1		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	762	776	ppbV	2		25
Trichlorofluoromethane	ND	ND	ppbV	NC		25
Isopropanol	2.32	2.18	ppbV	6		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	2.08	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	103	106	ppbV	3		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG632292-5 QC Sample: L1316546-01 Client ID: SV001					
1,1-Dichloroethane	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
Vinyl acetate	ND	ND	ppbV	NC	25
2-Butanone	15.1	14.9	ppbV	1	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
Ethyl Acetate	2.72	2.67	ppbV	2	25
Chloroform	13.4	13.4	ppbV	0	25
Tetrahydrofuran	0.596	0.598	ppbV	0	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
n-Hexane	11.9	13.7	ppbV	14	25
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
Benzene	7.74	8.78	ppbV	13	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Cyclohexane	2.79	2.61	ppbV	7	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	3.07	3.29	ppbV	7	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG632292-5 QC Sample: L1316546-01 Client ID: SV001					
Heptane	8.61	9.93	ppbV	14	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	1.79	1.96	ppbV	9	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	26.7	27.2	ppbV	2	25
2-Hexanone	1.95	1.84	ppbV	6	25
Dibromochloromethane	ND	ND	ppbV	NC	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	2.49	2.49	ppbV	0	25
p/m-Xylene	8.40	8.50	ppbV	1	25
Bromoform	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	2.50	2.43	ppbV	3	25
4-Ethyltoluene	0.572	0.598	ppbV	4	25
1,3,5-Trimethylbenzene	0.520	0.538	ppbV	3	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG632292-5 QC Sample: L1316546-01 Client ID: SV001					
1,2,4-Trimethylbenzene	2.05	2.06	ppbV	0	25
Benzyl chloride	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: PHG1301

Project Number: PHG1301

Lab Number: L1316546

Report Date: 08/30/13

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1316546-01	SV001	0576	#30 SV	08/22/13	92304		-	-	-	Pass	17.7	18.3	3
L1316546-01	SV001	143	2.7L Can	08/22/13	92304	L1316135-01	Pass	-29.3	-9.1	-	-	-	-
L1316546-02	SV002	0454	#30 SV	08/22/13	92304		-	-	-	Pass	17.7	17.9	1
L1316546-02	SV002	462	2.7L Can	08/22/13	92304	L1316135-01	Pass	-29.5	-7.4	-	-	-	-
L1316546-03	SV003	0386	#30 SV	08/22/13	92304		-	-	-	Pass	17.8	18.1	2
L1316546-03	SV003	114	2.7L Can	08/22/13	92304	L1316135-01	Pass	-29.3	-7.8	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1316135
Report Date: 08/30/13

Air Canister Certification Results

Lab ID: L1316135-01
Client ID: CAN 223 SHELF 13
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/21/13 18:03
Analyst: MR

Date Collected: 08/19/13 15:48
Date Received: 08/20/13
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.200	--	ND	0.361	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	2.50	--	ND	4.71	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.200	--	ND	0.434	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1316135

Project Number: CANISTER QC BAT **Report Date:** 08/30/13

Air Canister Certification Results

Lab ID: L1316135-01 Date Collected: 08/19/13 15:48

Client ID: CAN 223 SHELF 13 Date Received: 08/20/13

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Methylene chloride	ND	1.00	--	ND	3.47	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	0.200	--	ND	0.704	--		1
2-Butanone	ND	0.200	--	ND	0.590	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.200	--	ND	0.590	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1316135

Project Number: CANISTER QC BAT **Report Date:** 08/30/13

Air Canister Certification Results

Lab ID: L1316135-01 Date Collected: 08/19/13 15:48

Client ID: CAN 223 SHELF 13 Date Received: 08/20/13

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.200	--	ND	0.820	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1316135

Project Number: CANISTER QC BAT **Report Date:** 08/30/13

Air Canister Certification Results

Lab ID: L1316135-01 Date Collected: 08/19/13 15:48

Client ID: CAN 223 SHELF 13 Date Received: 08/20/13

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	84		60-140
Bromochloromethane	103		60-140
chlorobenzene-d5	104		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L1316135
Report Date: 08/30/13

Air Canister Certification Results

Lab ID:	L1316135-01	Date Collected:	08/19/13 15:48
Client ID:	CAN 223 SHELF 13	Date Received:	08/20/13
Sample Location:		Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15-SIM		
Analytical Date:	08/21/13 22:13		
Analyst:	AR		

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.050	--	ND	0.247	--		1
Chloromethane	ND	0.500	--	ND	1.03	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.020	--	ND	0.053	--		1
Acetone	ND	2.00	--	ND	4.75	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
Halothane	ND	0.050	--	ND	0.404	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.020	--	ND	0.072	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1316135

Project Number: CANISTER QC BAT **Report Date:** 08/30/13

Air Canister Certification Results

Lab ID: L1316135-01 Date Collected: 08/19/13 15:48

Client ID: CAN 223 SHELF 13 Date Received: 08/20/13

Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.020	--	ND	0.092	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.500	--	ND	2.46	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.500	--	ND	2.74	--		1
p-Isopropyltoluene	ND	0.500	--	ND	2.74	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L1316135

Project Number: CANISTER QC BAT **Report Date:** 08/30/13

Air Canister Certification Results

Lab ID: L1316135-01 Date Collected: 08/19/13 15:48

Client ID: CAN 223 SHELF 13 Date Received: 08/20/13

Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
n-Butylbenzene	ND	0.500	--	ND	2.74	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	95		60-140

Project Name: PHG1301
Project Number: PHG1301

Lab Number: L1316546
Report Date: 08/30/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
N/A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316546-01A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1316546-02A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-LL(30)
L1316546-03A	Canister - 2.7 Liter	N/A	N/A		Y	Absent	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name:	PHG1301	**Lab Number:**	L1316546
Project Number:	PHG1301	**Report Date:**	08/30/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: Data Usability Report

Project Name:	PHG1301	**Lab Number:**	L1316546
Project Number:	PHG1301	**Report Date:**	08/30/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name: PHG1301 **Lab Number:** L1316546
Project Number: PHG1301 **Report Date:** 08/30/13

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 3, 2012 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B, 3020A, . Organic Parameters: EPA 3510C, 3630C, 3640A, 3660B, 8081B, 8082A, 8270C, 8270D, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 6020A, 7471B, 9040B, 9045C. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9045D, 9060. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

Atmospheric Organic Parameters (EPA 3C, TO-15, TO-10A, TO-13A-SIM.)

Biological Tissue (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474, 9040C, 9045D. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

Air & Emissions (EPA TO-15, TO-10A.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Non-Potable Water (Inorganic Parameters: 1312, 1631E, 180.1, 3020A, 6020A, 7470A, 9040B, 9050A, 2320B, 2540D, 2540G, SM4500H+-B. Organic Parameters: 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D .)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3051A, 6020A, 7471B, 7474 9040B, 9045C, 9060. Organic Parameters: EPA3050B, 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8270D, 8081B, 8015D, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via NJ-DEP.***

Refer to NJ-DEP Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A, 6020A, 245.7, 9040B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015, 8270.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

Serial_No:08301314:56

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

ALPHA ANALYTICAL
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab:

ALPHA Job #: L1316546

Client Information

Client: PW Grosser Consulting
Address: 630 Johnson Avenue Bohemia NY 11716
Phone: (631) 589-6353
Fax:
Email: thomasm@pwgrosser.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: PH61301
Project Location: 325 E 25th St, NY, NY
Project #: PH61301
Project Manager: Thomas Nelia
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: **Time:**

Report Information - Data Deliverables

☐ FAX
☐ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:

Report to: (if different than Project Manager)

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14A by TO-15	TO-15	TO-15 SIM	APH	FIXED GASES	TO-13A	TO-4 / TO-10	Sample Comments (i.e. PID)
16546-01	SV001	08/23	1043	1242	-30.14	-8.29	SV	JMC	27	143	0576		X						
02	SV002	↓	1137	1337	-29.59	-6.63	↓	↓	27	462	0454		X						
03	SV003	↓	1236	1436	-30.32	-7.38	↓	↓	27	114	0386		X						

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Jessica Calabrese	08/23/13 15:35	[illegible]	8-23-13 15:38
[illegible]	8-23-13 19:10	[illegible] Mahuby	8/23/13 19:10
Abdul Mahuby	8/23/13 23:45	[illegible]	8/23/13 23:45
[illegible]	8/24/13 05:00	Mansfield Lab	8/24/13 05:00