

**201-205 MOTHER GASTON BOULEVARD/2396  
DEAN STREET  
BROOKLYN, NEW YORK**

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# **Remedial Investigation Report**

**CEQR No.: 09HPD032K**

**NYC VCP Site Number: 13CVCP135K**

**Prepared for:**

Habitat for Humanity New York City

111 John Street, 23<sup>rd</sup> Floor

New York, NY 10038

(212) 991-4000

**Prepared by:**

Langan Engineering, Environmental, Surveying and Landscape Architecture, DPC

21 Penn Plaza, 360 West 31st Street, 8th Floor

New York, NY 10001-2727

(212) 479-5400

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May 2013

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## 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, Joel Landes, P.E., 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 201-205 Mother Gaston Boulevard/2396 Dean Street Site, (NYC VCP Site No. 13CVCP135K and CEQR No. 09HPD032K). 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.

Joel B. Landes, P.E.

2013-05-09

Qualified Environmental Professional

Date

Signature

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# 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 201-205 Mother Gaston Boulevard/2396 Dean Street in the Ocean Hill/Brownsville section in Brooklyn, New York and is identified as Block 1450, Lot 8<sup>1</sup> on the New York City Tax Map. Figure 1 shows the Site location. The Site is 7,395 square feet and is bounded by residential properties to the south and east, Dean Street to the north and Mother Gaston Boulevard to the west. The site boundary is shown on the Site Location Map, Figure 2. The Site is currently vacant and landscaped with grass and trees. Site security is provided by a chain link fence.

## Summary of Proposed Redevelopment Plan

The proposed development of the Site will consist of a four-story, 18,425-gross square foot residential building containing 15 residential apartment units (net 11,650 residential square feet). The proposed building footprint measures approximately 4,415 square feet, and will feature a partial single cellar level excavated to approximately 10 feet below grade. The cellar will measure approximately 2,524 square feet and will be used for mechanical and metering equipment, and possibly storage. Additional excavation of the Site may be performed for utility installation in localized areas. The remaining portions of the Site will be improved with open grid concrete pavers, soft scape landscaping, and planters. Landscaped areas and areas of bare soil will be covered with a minimum of two feet of clean fill. A proposed Site cellar plan is presented in Figure 3. The current zoning designation is R-6, group 2 residential. The proposed use is consistent with existing zoning for the property.

## Summary of Past Uses of Site and Areas of Concern

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<sup>1</sup>Block 1450, Lots 8, 9, 10, and 11 were recently consolidated into a single lot, Lot 8. Please note that updated tax maps were not available for use with the RIR figures. Therefore, Figures 2, 3, 4, 5, 6, and 7 portray the Site as Block 1450, Lots 8, 9, 10, and 11.

A Phase I Environmental Site Assessment (ESA) of the Site was completed by Soil Mechanics Environmental Services in October 2007. The Phase I ESA reported the Site was developed for residential purposes in 1888. Between 1888 and the early 1900s, the Site buildings were utilized for residential, retail, manufacturing, and commercial purposes, as well as a garage. The ground floors of the structures located at 201 and 203 Mother Gaston Boulevard were utilized for clothing manufacturing between 1951 and 1965. 201 Mother Gaston Boulevard was utilized for sheet metal operations in 1928 and as a refrigeration and compressor supply in the 1970s and 1980s. 2400 Dean Street (portions of present-day Lot 11) was occupied by a refrigeration company in 1960. The Phase I ESA is provided as Appendix B.

This RI was performed to investigate the following potential Areas of Concern:

- Potential soil, groundwater, and soil vapor impacts associated with historical manufacturing use of the Site; and
- Fill material of unknown origin with possible contamination.

### **Summary of the Work Performed under the Remedial Investigation**

Langan conducted the RI between April 19 and 25, 2013 to characterize soil, groundwater, and soil vapor at the Site and to investigate the AOCs identified above. The RI was completed in accordance with:

- Remedial Investigation Work Plan (RIWP) prepared by ALC Environmental, Inc. (ALC) and dated June 2010, and a RIWP addendum prepared by Langan and dated March 2013, included as Appendix C; and
- RI Health and Safety Plan (HASP) prepared by ALC and dated March 2010, included in Appendix D.

The RI included the following:

1. A geophysical investigation across the Site
2. Advancement of seven soil borings and the collection of 15 soil samples for laboratory analysis
3. Installation of one temporary groundwater monitoring well and the collection of one groundwater sample for laboratory analysis

4. Installation of three soil vapor sampling points and the collection of three soil vapor samples for laboratory analysis

### **Summary of Environmental Findings**

1. The Site elevation is approximately 65 feet above mean sea level (msl), based on the United States Geological Survey (USGS) Brooklyn, N.Y. Topographic Quadrangle Map.
2. Depth to groundwater was observed to be approximately 57.2 feet below ground surface (ft bgs) at the Site.
3. Assumed groundwater flow direction is generally from northwest to southeast beneath the Site, based on local topography and proximity to surface water bodies.
4. Depth to bedrock is approximately 100 to 120 ft bgs at the Site, based on previous geotechnical studies performed by Langan on nearby sites in Brooklyn.
5. The results of the geophysical investigation found subsurface anomalies consistent with buried construction debris (bricks, concrete, etc.). The subsurface anomalies were not consistent with buried tanks or drums.
6. Soil underlying Site grade level consists of a layer of historic fill that extends to a depth of at least 12 ft bgs across the Site, and to an approximate depth of 36 ft bgs in the vicinity of boring/well MW-03 (the only sample location that was extended beyond 12 ft bgs). The fill unit primarily consists of brown/tan coarse to fine sand with silt, gravel, brick, concrete, coal, and trash debris. Tan, coarse to fine sand with traces of gravel and silt extends to a minimum depth of 62 ft bgs.
7. Field indications of potential environmental impacts (i.e. odors and PID measurements above background) were identified in the 6-7 ft bgs range of boring SB-01 only. Fill was observed in this soil boring at the 6-7 ft bgs interval, and soil chemistry is consistent with fill constituents.
8. VOCs and PCBs were not detected at concentrations above the Track 1 Unrestricted Use Part 375 SCOs. Six SVOCs including benzo(a)anthracene (max. of 15.7 mg/kg or ppm), benzo(a)pyrene (max. of 21.6 ppm), benzo(b)fluoranthene (max. of 21.9 ppm), benzo(k)fluoranthene (max. of 16 ppm), dibenzo(a,h)anthracene (max. of 1.1 ppm) and

indeno(1,2,3-cd)pyrene (max. of 4.8 ppm) were detected in one or more samples at concentrations that exceed the Restricted Residential SCOs. Pesticides including 4,4'-DDD (max. of 47.8 ppb), 4,4'-DDE (max. of 30.9 ppb) and 4,4'-DDT (max. of 134 ppb) were detected in one or more samples at concentrations that exceeded the Unrestricted Use (Track 1) SCOs (which is 3.3 for all three compounds). Dieldrin also slightly exceeded Unrestricted Use SCOs. None of pesticides exceed the Restricted Residential SCO in any of the samples. Metals including barium, copper, lead, selenium, zinc and manganese exceeded the Unrestricted Use SCO in one or more samples. Of these, barium (max. of 450 ppm), manganese (max. of 3020 ppm) and lead (max. of 695 ppm) also exceeded the Restricted Residential SCO.

9. PCBs and pesticides were not detected in the groundwater sample. One VOC, tetrachloroethylene (PCE), was detected at a concentration (13µg/L) above the Groundwater Quality Standard (GQS) of 5 µg/L. One SVOC, bis(2-ethylhexyl)phthalate (12.9µg/L) and one metal, manganese (340 µg/L) were detected above their respective GQS.
10. Several petroleum related and chlorinated VOCs, including 1,1-dichloroethylene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone, acetone, carbon disulfide, chlorobenzene, ethyl benzene, n-heptane, n-hexane, and o-xylene, were detected in soil vapor. Acetone and methylene chloride are common laboratory contaminants. PCE (max. of 65 µg/m<sup>3</sup>) and TCE (7.9 µg/m<sup>3</sup>) were detected in all soil vapor samples. TCA and carbon tetrachloride were not detected in soil vapor.

### **Summary of Conclusions**

The results of the RI identified the presence of historic fill material across the site to depths of up to 36 feet below grade. The results of the RI did not indicate that historical industrial use of the Site impacted soil, groundwater or soil vapor on-Site. While chlorinated aliphatic hydrocarbons were found in groundwater and soil vapor, these compounds were not found in any soil sample and no specific evidence of historical solvent use was identified during performance of the Phase I ESA. It is our conclusion that the source for these contaminants is off-Site.

For the Site to be suitable for its proposed use as a residential, multiple story building, Langan recommends the following:

- Current renovation plans include limited soil disturbance in the area of the proposed building cellar and possible buried utilities. Excess historic fill generated during development-related excavation should be characterized, handled and transported in accordance with applicable local, state and federal regulations. Disposal should occur at a facility that is permitted to accept the material;
- A soil vapor barrier or other vapor intrusion mitigation system should be installed to prevent infiltration of potentially TCE-impacted soil vapor into the basement of the proposed building; and
- Exposed soil that is not removed during future site development and not covered by an impermeable surface should be covered with at least two feet of clean fill meeting the more stringent of the Part 375 Restricted Residential Use and Protection of Groundwater SCOs.

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# REMEDIAL INVESTIGATION REPORT

## 1.0 SITE BACKGROUND

Habitat for Humanity New York City proposes to develop the property at 201-205 Mother Gaston Boulevard/2396 Dean Street in Brooklyn, NY (the “Site”). The Site is currently vacant and landscaped with grass and trees. A Negative Declaration has been issued for the Site by the New York City Department of Housing Preservation and Development (presented as Appendix A). Habitat for Humanity New York City intends to enter the Site into the New York City Voluntary Cleanup Program (NYC VCP).

The Remedial Investigation (RI) work was performed between April 19 and April 15, 2013. This RI Report (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 201-205 Mother Gaston Boulevard/2396 Dean Street in the Ocean Hill/Brownsville section in Brooklyn, New York and is identified as Block 1450, Lot 8<sup>2</sup> on the New York City Tax Map. Figure 1 shows the Site location. The Site is approximately 7,395-square feet and is bounded by residential properties to the south and east, Dean Street to the north and Mother Gaston Boulevard to the west. A map of the site boundary is shown in Figure 2. The Site is currently vacant and landscaped with grass and trees, and is surrounded by a chain link fence.

### 1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a four-story, 18,425-gross square foot residential building containing 15 residential apartment units (net 11,650 residential square feet). The proposed building footprint measures approximately 4,415 square feet, and will feature a partial and single cellar level, excavated to approximately 10 feet below grade. The cellar will

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<sup>2</sup>Block 1450, Lots 8, 9, 10, and 11 were recently consolidated into a single Lot 8. Please note that updated tax maps were not available for use with the RIR figures. Therefore, Figures 2, 3, 4, 5, 6, and 7 portray the Site as Block 1450, Lots 8, 9, 10, and 11.

measure approximately 2,524 square feet and will be used for mechanical and metering equipment, and possibly storage. Additional excavation of the Site may be performed for utility installation in localized areas. The remaining portions of the Site will be improved with open grid concrete pavers, landscaping and planters. Landscaped areas and areas of bare soil will be covered with a minimum of 2 feet of clean material. A proposed Site cellar plan is presented in Figure 3. The current zoning designation is R-6, group 2 residential. The proposed use is consistent with existing zoning for the property.

### 1.3 Description of Surrounding Property

The Site is located in an urban area characterized by single and multi-story residential, mixed-use residential and commercial buildings as well as light manufacturing facilities. Surrounding properties include a wholesale beverage distributor to the north across Dean Street; a mixed-use residential and commercial building (delicatessen) and a three-story residential building to the west across Mother Gaston Boulevard; a three-story residential building to the east; and a two-story residential property to the south. Additionally, the southeastern corner of the Site is bounded by an empty lot containing junked automobiles. Surrounding property usage is summarized in the following table:

Direction	Adjacent Properties	Surrounding Properties
North	Dean Street followed by a beverage distributor with a parking lot	Single and multiple-story residential, commercial and mixed-use residential-commercial buildings
South	Two-story residential property (adjoining Lot 8) and a vacant lot with junked automobiles to the southeast, which adjoins the Lot 11 portion of the Site.	Single and multiple-story residential, commercial and mixed-use residential-commercial buildings
East	Three-story residential building and a four-story mixed use commercial-residential building	Single and multiple-story residential, commercial and mixed-use residential-commercial buildings

West	Mother Gaston Boulevard followed by	Single and multiple-story residential, commercial and mixed-use residential-commercial buildings
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According to the New York City Office of Environmental Remediation (NYC OER) Searchable Property Environmental Database (SPEED), sensitive receptors (i.e. schools, hospitals or daycares) are not located within 500 feet of the Site. Figure 2 shows the surrounding land usage.

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## **2.0 SITE HISTORY**

### **2.1 Past Uses and Ownership**

A Phase I Environmental Site Assessment (ESA) of the Site was completed by Soil Mechanics Environmental Services in October 2007. The Phase I ESA revealed that the Site was developed for residential purposes in 1888. Between 1888 and the early 1900s, the Site buildings were utilized for residential, retail, manufacturing, commercial purposes, as well as a garage. The ground floors of the structures located at 201 and 203 Mother Gaston Boulevard were utilized for clothing manufacturing between 1951 and 1965. 201 Mother Gaston Boulevard was utilized for sheet metal operations in 1928, and as a refrigeration and compressor supply between 1960 and 1980. The Phase I ESA is presented as Appendix B.

### **2.2 Previous Investigations**

With exception of the Phase I ESA discussed above, no other environmental assessments/investigations were available for review during the completion of this RIR.

### **2.3 Site Inspection**

A site inspection was conducted on April 19, 2013 by Daniel Carrus during Langan's RI. The Site was observed to be landscaped with grass and several deciduous and coniferous trees, and is surrounded by a chain link fence. Small patches of concrete were also observed at Site grade, indicating the presence of a former foundation or building slab. The northeastern portion of the Site was partially depressed, indicating a subterranean void area that had been previously filled and has since caved in. The southeastern portion of the Site was overlain with construction and household debris.

### **2.4 Areas of Concern**

This RI was performed to investigate the following potential Areas of Concern:

- Historical usage as manufacturing and sheet metal operations; and
- Fill material of unknown origin with possible contamination.

## **3.0 PROJECT MANAGEMENT**

### **3.1 Project Organization**

The Professional Engineer (P.E.) and Qualified Environmental Professional (QEP) responsible for preparation of this RIR are Joel Landes, P.E. and Daniel Carrus, respectively.

### **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. Grossly contaminated soil was not encountered, and soil borings were backfilled with clean soil cuttings. Investigation-derived wastes (IDW) were placed into sealed and labeled 55-gallon steel drums for off-site disposal.

## **4.0 REMEDIAL INVESTIGATION ACTIVITIES**

Langan conducted the RI between April 19 and 25, 2013 to characterize soil, groundwater, and soil vapor at the Site and to investigate potential impacts from the AOCs identified above. The RI was completed in accordance with:

- Remedial Investigation Work Plan (RIWP) prepared by ALC Environmental, Inc. (ALC) and dated June 2010, and a RIWP addendum prepared by Langan and dated March 2013, included as Appendix C;
- RI Health and Safety Plan (HASP) prepared by ALC and dated March 2010, and included in Appendix D.

The RI included the following:

1. A geophysical investigation across the Site;
2. Advancement of seven soil borings and the collection of 15 soil samples for laboratory analysis;
3. Installation of one temporary groundwater monitoring well and the collection of one groundwater sample for laboratory analysis; and
4. Installation of three soil vapor sampling points and the collection of three soil vapor samples for laboratory analysis.

### **4.1 Geophysical Investigation**

A geophysical investigation was performed by Nova Geophysical Services (Nova) on April 19, 2013 to identify any underground storage tanks (UST), anomalies, and subsurface structures and to clear the soil boring, monitoring well, and soil vapor point locations. The survey was performed under the supervision of a Langan field engineer. Ground penetrating radar (GPR), and electromagnetic methods were utilized, and a comprehensive subsurface utility (CSUL) survey was conducted. A CSUL Pipe and Cable Locator, Ditch-Witch utility locator, a Geonics EM61 electromagnetic detector and a Sensors and Software 250 MHz GPR were used to complete the survey.

Anomalies consistent with the presence of fill materials (brick, concrete, etc.) were identified throughout the surveyed area. No anomalies consistent with the size, shape and anticipated

depth of buried tanks or drums were identified. The geophysical report and accompanying figure is included as Appendix E.

## **4.2 Borings and Monitoring Wells**

### **Drilling and Soil Logging**

Aquifer Drilling & Testing, Inc. (ADT) of New Hyde Park, New York advanced the soil borings under the observation of a Langan field engineer. The borings were advanced using a track-mounted CME LC-55 drilling rig. Borings were advanced without the use of water, mud or drilling fluid to preserve the integrity of the environmental samples. Soil borings were advanced to 12 feet below ground surface (ft bgs) to evaluate potential soil impacts at the proposed depth of any foundation development. One soil boring (MW-03) was advanced to the water table at approximately 60 feet below grade. Soil samples were collected continuously into decontaminated, two-inch stainless steel split-spoon samplers in borings SB-01 and SB-05. Dedicated, disposable five-foot acetate macrocore liners were used to collect samples in borings MW-02, SB-04, SB-06 and MW-07. Macrocore liners and split-spoon samplers were used to collect samples in boring MW-03. A summary of soil boring details is provided in Table 1, a summary of collected samples is provided in Table 2, and a map showing the location of soil borings is provided in Figure 4.

Soil samples were inspected for visual and olfactory evidence of contamination, and screened with a calibrated photoionization detector (PID) equipped with a 10.6-electron volt (eV) lamp. Field indications of environmental impacts (i.e. staining, odors or PID measurements above background) were identified in the 6-7 ft bgs range of SB-01, only. Based on soil chemistry results and the absence of evidence of impacts in other borings at the Site, this impact is due to a localized area of concentrated coal fragments, asphalt materials, slag, and fossil fuel ash. Soil profiles were logged using the Burmister Soil Classification system. Soil boring logs are included as Appendix F.

### **Groundwater Monitoring Well Construction**

ADT installed one temporary monitoring well in soil boring MW-03. This soil boring was extended to 65 ft bgs for this purpose. The temporary well was constructed with one-inch diameter, Schedule 40, polyvinyl chloride (PVC) riser with 5 feet of prepacked stainless steel slot 10 screen. The annular space around the screen was filled with #1 sand, and an

approximately two-foot bentonite slurry seal was added above the sand. The temporary monitoring well location is shown in Figure 4. A well construction log is provided in Appendix G. The temporary well was developed by over pumping until sediment-free water was produced.

### **Water Level Measurement**

Water level measurements were taken with a Solinst Model 101 water level meter. Depth to water was measured as 57.2 ft bgs at the time of well installation and again at the same depth below grade prior to sampling. Water level data is included in the boring logs provided in Appendix F and in the groundwater sampling log provided in Appendix G.

### **4.3 Sample Collection and Chemical Analysis**

Sampling performed as part of the field investigation was conducted for all AOCs 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**

Soil samples were collected from two depth intervals in each boring for chemical analysis during this RI, with the exception of from boring SB-01. Due to impacts observed in SB-01 during the RI, soil samples were collected from three depth intervals in this boring. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in Table 2. Figures 4 and 5 show the location of samples collected in this investigation.

Samples were collected into decontaminated, stainless steel, split-spoon samplers and into dedicated and disposable acetate macrocore liners. In the absence of field indications of environmental impacts (i.e. staining, odor, or elevated organic vapor concentrations), soil samples were collected in each boring from the surficial depth interval (0 to 2 ft bgs) and the proposed development depth (10 to 12 ft bgs). The samples were placed into laboratory-supplied containers and delivered via courier under standard chain-of-custody protocol to York Analytical

Laboratories, Inc., (York) a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory in Stratford, Connecticut.

A summary of soil chemistry data is provided in Table 3. Laboratory analytical reports, chain-of-custody documentation and a copy of the NYSDOH ELAP certification are provided in Appendix H.

### **Groundwater Sampling**

One groundwater sample was collected from the temporary well MW-03 for chemical analysis during this RI. Groundwater sample collection data is reported in Table 4. A sampling log with information on purging and sampling of the groundwater monitoring well is provided as Appendix G. Figure 4 shows the location of groundwater samples.

Prior to sample collection, the temporary monitoring well was purged with a QED groundwater bladder sampling pump, using low-flow purging techniques to minimize drawdown. Water quality parameters (i.e. pH, temperature, specific conductance, turbidity, oxidation-reduction potential [ORP], and dissolved oxygen [DO]) were measured and recorded throughout purging using a Horiba U-52 water quality meter. Measurements were collected until the parameters stabilized within 10% variability between successive measurements, the turbidity was below 50 nephelometric turbidity units (NTU), and a reasonable volume of water was purged. Due to slow well yield, a total of 1.3 well volumes were purged prior to sample collection.

### **Soil Vapor Sampling**

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 7. Soil vapor sampling logs are included as Appendix G. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*.

Soil vapor sampling points were constructed using six-inch stainless steel double woven screens and polyethylene tubing installed to a depth of 12 ft bgs, which is the depth of the proposed development. The annulus around each vapor probe was backfilled with clean sand to approximately 10.5 ft bgs. Bentonite slurry was used to seal each point, and soil vapor points were backfilled with a combination of sand and soil cuttings.

As a quality assurance (QA) measure, an inert tracer gas (helium) was introduced into an above-grade sampling chamber to ensure that the soil vapor sampling points were properly sealed above the target sampling depth, thereby preventing sub-surface infiltration of ambient air. The sample chamber was sealed above the sample point with bentonite slurry. Direct readings of helium of less than 10 percent were considered sufficient to verify a tight seal. Each soil vapor point was purged using an SKC low flow sampling pump at a rate no greater than 0.2 liters per minute (L/min) to evacuate a minimum of three sampling-tube volumes prior to sample collection. Soil vapor samples were collected into laboratory-cleaned and certified six-liter, stainless steel Summa<sup>®</sup> canisters with regulators calibrated for a sampling rate of no greater than 0.05 L/min for a two-hour sampling interval. Samples were transported to York for laboratory analysis under standard chain-of-custody procedures.

### Chemical Analysis

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

<b>Factor</b>	<b>Description</b>
Quality Assurance Officer	The chemical analytical quality assurance is directed by Stuart Knoop, P.G.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified York Analytical Laboratories, Inc. of Stratford, Connecticut.
Chemical Analytical Methods	Soil analytical methods: <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007);</li> <li>• VOCs by EPA Method 8260C (rev. 2006);</li> <li>• SVOCs by EPA Method 8270D (rev. 2007);</li> <li>• Pesticides by EPA Method 8081B (rev. 2000);</li> <li>• PCBs by EPA Method 8082A (rev. 2000);</li> </ul> Groundwater analytical methods: <ul style="list-style-type: none"> <li>• TAL Metals by EPA Method 6010C (rev. 2007), total and dissolved (laboratory filtered);</li> <li>• VOCs by EPA Method 8260C (rev. 2006);</li> <li>• SVOCs by EPA Method 8270D (rev. 2007);</li> <li>• Pesticides by EPA Method 8081B (rev. 2000);</li> <li>• PCBs by EPA Method 8082A (rev. 2000);</li> </ul> Soil vapor analytical methods: <ul style="list-style-type: none"> <li>• VOCs by TO-15 VOC parameters.</li> </ul>

## Results of Chemical Analyses

Laboratory data for soil, groundwater and soil vapor are summarized in Tables 3, 4 and 5, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form as Appendix H.

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## **5.0 ENVIRONMENTAL EVALUATION**

### **5.1 Geological and Hydrogeological Conditions**

#### **Stratigraphy**

Predominant geological surface features (i.e. outcroppings) were not observed at the Site. Soil and bedrock stratigraphy throughout this area of Brooklyn typically consists of a layer of historic fill that overlies glacial till, decomposed unconsolidated bedrock, and bedrock. Soil underlying Site grade level consists of a layer of historic fill that extends to a depth of at least 12 ft bgs across the Site, and to an approximate depth of 36 ft bgs in the vicinity of boring/well MW-03. The fill unit primarily consists of brown/tan coarse to fine sand with silt, gravel, brick, concrete, coal, and trash debris. Tan, coarse to fine sand with traces of gravel and silt extends to a minimum depth of 62 ft bgs. Complete descriptions are included in the boring logs provided as Appendix F.

Based on investigations conducted at other properties in Brooklyn, the top of bedrock in the vicinity of the Site is estimated between 400 and 450 ft bgs, based on previous geotechnical studies performed by Langan on nearby sites in Brooklyn. The USGS “Geologic Map of New York City and Adjacent Part of New Jersey” indicates the bedrock underlying the Site is part of the Hartland Formation. The Hartland Formation is comprised of mica schist and quartz-feldspar granulite, with localized intrusions of granite and pegmatite.

#### **Hydrogeology**

Groundwater was encountered at approximately 57.2 ft bgs. Groundwater is inferred to flow to the southeast towards Jamaica Bay, based on the topographic gradient and the proximity of the Site to Jamaica Bay. Water level data is provided in the Groundwater Sampling forms in Appendix G.

### **5.2 Soil Chemistry**

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in Table 3. Figure 5 shows the location and posts the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 1 Unrestricted Use and Track 2 Restricted Residential Soil Cleanup Objectives (SCO). The results of the soil sample analyses are summarized below:

- VOCs and PCBs were not detected at concentrations above the Track 1 Unrestricted Use Part 375 SCOs.
- Six SVOCs including benzo(a)anthracene (max. of 15.7 mg/kg or ppm), benzo(a)pyrene (max. of 21.6 ppm), benzo(b)fluoranthene (max. of 21.9 ppm), benzo(k)fluoranthene (max. of 16 ppm), dibenzo(a,h)anthracene (max. of 1.1 ppm) and indeno(1,2,3-cd)pyrene (max. of 4.8 ppm), which are all classified as polycyclic aromatic hydrocarbons (PAH), were detected in one or more samples of historic fill at concentrations that exceed the Restricted Residential SCOs.
- Four pesticides including 4,4'-DDD (max. of 47.8 ppb), 4,4'-DDE (max. of 30.9 ppb) and 4,4'-DDT (max. of 134 ppb) were detected in one or more samples at concentrations that exceeded the Track 1 Part 375 SCOs (which is 3.3 for all three compounds). Dieldrin also slightly exceeded Unrestricted Use SCOs. Pesticides do not exceed the Restricted Residential SCO in any of the samples.
- Six metals (barium, copper, lead, selenium, zinc and manganese) exceeded the Track 1 Part 375 Unrestricted Use SCO in one or more samples. Of these, barium (max. of 450 ppm) and lead (max. of 695 ppm) also exceeded the Restricted Residential SCO in samples SB-04\_0-2, SB-06\_0-2, and MW-07\_0-2. Manganese (max. of 3020 ppm) exceeded the Track 2 Part 375 Restricted Residential SCO in sample MW-02\_10-12. No other metals exceeded Track 2 Part 375 Restricted Residential SCOs in any soil samples.

Elevated concentrations of PAHs (which are a subset of SVOCs), and metals are typically observed in historic fill in New York City. Based on the types, concentrations and distribution of detections in the soil samples, as well as on field observations over the sampling intervals, the observed PAH and metals concentrations are likely indicative of background conditions in the historic urban fill. Elevated concentrations of pesticides in surficial areas of soil are typical of landscaped ground cover and elevated concentrations of pesticides at depth may be the result of imported fill material.

### **5.3 Groundwater Chemistry**

Analytical results were compared to NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS) and Guidance Values (GV) for Class GA (drinking water) groundwater. A summary table of data for chemical

analyses performed on groundwater samples is included in Table 4. Figure 6 shows the location and posts the values for groundwater that exceed the Class GA AWQS/GV. The results of the groundwater sample analyses are summarized below.

- One VOC, tetrachloroethylene (PCE), was detected at a concentration (13µg/L) above the AWQS of 5 µg/L in the groundwater sample MW-03\_GW. Because no on-Site historical source of PCE use was identified during previous diligence and because PCE was also not detected in any soil samples collected from the Site, the groundwater detection likely reflects an off-Site source;
- One SVOC, bis(2-ethylhexyl)phthalate (12.9µg/L), was detected at a concentration above the AWQS of 5 µg/L in the groundwater sample MW-03\_GW. Bis(2-ethylhexyl)phthalate was detected in two soil samples, however none of the detections exceeded any of the applicable soil standards. Because no on-Site historical source of bis(2-ethylhexyl)phthalate use was identified during previous diligence and because bis(2-ethylhexyl)phthalate did not exceed any applicable soil standards during this RIR, the groundwater detection likely reflects an off-Site source;
- PCBs were not detected in the groundwater sample;
- Pesticides were not detected above the AWQS/GV in the groundwater sample; and
- Manganese was detected at a concentration above the AWQS of 300 µg/L in the groundwater sample. Specifically, the concentration of total manganese was 466 µg/L, and the concentration of dissolved manganese was 340 µg/L. Elevations of manganese detected in the total (i.e. unfiltered) sample was likely resultant from suspended particulates. Manganese in groundwater can be naturally occurring, and may be present from weathering of manganese-bearing rock. No other metals were detected in groundwater at concentrations that exceed Class GA AWQS/GV.

#### **5.4 Soil Vapor Chemistry**

Three sub-slab soil vapor samples were collected for laboratory analysis. Results are compared to the following five criteria:

1. The NYSDOH Air Guideline Values (AGV), which have been established for indoor air concentrations of methylene chloride, trichloroethene (TCE) and tetrachloroethene

(PCE); background levels of VOCs in indoor air presented in Appendix C of the NYSDOH 2006 Soil Vapor Intrusion Guidance

2. Upper fence limit indoor air values from “Table C-1 NYSDOH 2003: Study of Volatile Organic Chemicals in Air of Fuel Oil Heated Homes”
3. 90<sup>th</sup> percentile indoor air values from “Table C-2 - EPA 2001: Building Assessment and Survey Evaluation (BASE) Database, SUMMA canister method”
4. 95<sup>th</sup> percentile indoor air values from “Table C-5, Health Effects Institute (HEI) 2005: Relationship of Indoor, Outdoor and Personal Air”
5. Typical background VOC concentrations provided in Appendix X7 of ASTM E 2600-08 Standard Practice for Assessment of Vapor Intrusion into Structures on Property Involved in Real Estate Transactions

Several petroleum related and chlorinated VOCs, including 1,1-dichloroethylene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone, acetone, carbon disulfide, chlorobenzene, ethyl benzene, n-heptane, n-hexane, and o-xylene, were detected in soil vapor at concentrations above the specified range NYSDOH background levels and ASTM 2600-08 VOC Data Median. TCE exceeded the NYSDOH AGV in sample SG-02\_12. Acetone and methylene chloride are common laboratory contaminants and were likely introduced into the samples at the laboratory. The detected concentrations were generally within one order of magnitude of the corresponding background levels. With the exception of TCE detected in sample SG-02\_12 (discussed below), the concentrations of applicable compounds did not exceed the corresponding AGVs.

The analytical results were also evaluated using Decision Matrices 1 and 2 in the NYSDOH 2006 Soil Vapor Intrusion Guidance. The matrices address the compounds TCE, PCE, 1,1,1-trichloroethane (1,1,1-TCA), and carbon tetrachloride. The matrix evaluation is predicated on sub-slab soil vapor and indoor air data. Indoor air samples were not collected as part of this investigation; however, the matrices were used as a reference to conduct an evaluation of potential mitigation requirements, based on conservative, hypothetical assumptions regarding indoor air quality.

The four compounds evaluated in the NYSDOH decision matrices were detected at the following concentrations:

<b>Compound</b>	<b>Minimum Action Level for Mitigation (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Concentration Range (<math>\mu\text{g}/\text{m}^3</math>)</b>
Carbon Tetrachloride	5	0 (not detected)
TCE	5	1.7 (SG-01_12) to 7.9 (SG-02_12)
PCE	100	13 (SG-03_12) to 65 (SG-02_12)
1,1,1-tetrachlorethane (TCA)	100	0 (not detected)

Carbon tetrachloride and TCA was not detected in any of the soil vapor samples collected during the RI.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. Soil vapor analytical results are summarized in Table 5. Figure 7 shows the locations and posts the values for soil vapor samples with detected concentrations.

### **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.

## 6.0 RECOMMENDATIONS

Based on the findings of the RI, Langan recommends the following:

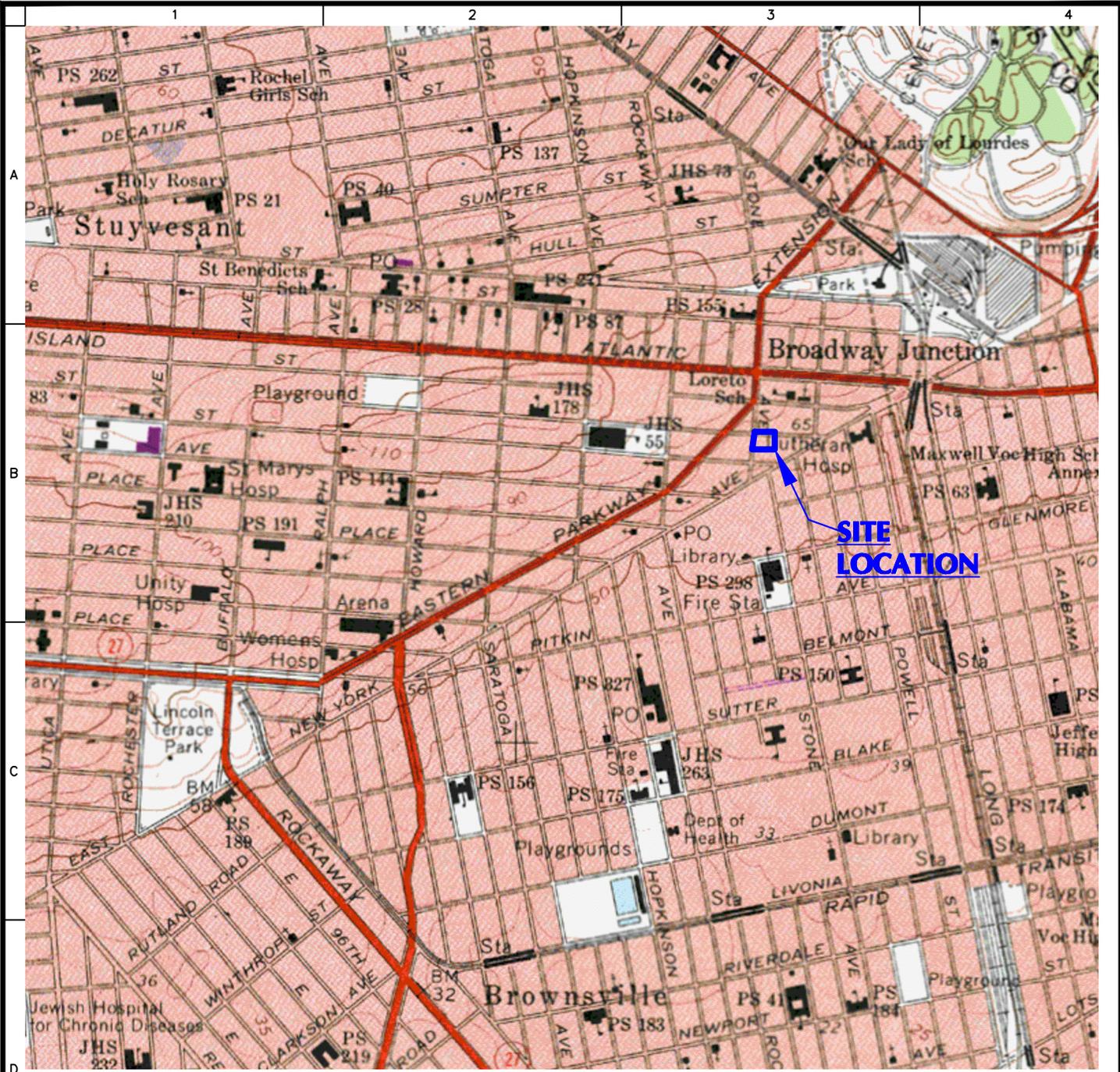
- The results of the soil sampling investigation did not reveal evidence of a spill or other environmental conditions associated with the AOCs. Additional investigation is not warranted. Based on detected concentrations of PAHs and metals above Track 2 Part 375 Restricted Residential SCOs, excess historic fill generated during development-related excavation should be characterized, handled, transported and disposed in accordance with applicable local, state and federal regulations. Disposal should occur at a facility that is permitted to accept the material;
- The analytical results of soil and groundwater sampling did not indicate an on-site source for TCE, and the Phase I ESA did not indicate a history of TCE usage at the Site. Additional investigation or remediation of groundwater is not warranted.
- Based on a comparison of the soil vapor results to the NYSDOH 2006 Soil Vapor Intrusion Guidance Decision Matrices 1 and 2, particularly the concentration of TCE, soil vapor mitigation (e.g., installation of a soil vapor barrier) may be warranted to prevent infiltration of soil vapor into the first floor and basement of the building. The detected concentrations of PCE and methylene chloride were below the minimum action levels for mitigation; and
- Exposed soil that is not removed during future site development and not covered by an impermeable surface should be covered with at least two feet of environmentally clean fill meeting the Track 2 Part 375 SCO requirements.

## FIGURES

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Figure 1 Site Topographic Map

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**SITE  
LOCATION**

**LEGEND**

 - SITE LOCATION

**NOTES**

1. BASE MAP TAKEN FROM UNITED STATES GEOLOGICAL SURVEY (USGS) BROOKLYN, NY TOPOGRAPHIC QUADRANGLE MAP, DATED 1967, REVISED 1979 AND 1981..

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

**LANGAN**  
 21 Penn Plaza, 360 West 31st Street, 8th Floor  
 New York, NY 10001  
 T: 212.479.5400 F: 212.479.5444 www.langan.com  
 Langan Engineering, Environmental, Surveying and  
 Landscape Architecture, D.P.C.  
 Langan Engineering and Environmental Services, Inc.  
 Langan International LLC  
 Collectively known as Langan

Project  
**REMEDIAL  
 INVESTIGATION  
 REPORT**  
 BLOCK No. 1450, LOT Nos. 8,9,10&11  
 MOTHER GASTON BOULEVARD AND  
 DEAN STREET  
 BROOKLYN NEW YORK

Drawing Title  
**SITE  
 TOPOGRAPHIC  
 MAP**

Project No.  
170157901  
 Date  
06 MAY 2013  
 Scale  
NTS  
 Drawn By  
SPL  
 Submission Date  
06 MAY 2013

Figure No.  
**FG-01**  
 Sheet 1 of 7

Figure 2 Site Location Map

---



**LEGEND**

-  - PROPERTY LINE
-  - NEW YORK CITY TAX ID BLOCK
-  - NEW YORK CITY TAX ID LOT

**NOTES**

1. BASE MAP TAKEN FROM NEW YORK CITY OPEN ACCESSIBLE SPACE INFORMATION SYSTEM (OASIS) MAP. WWW.OASISNYC.NET

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 New York, NY 10001  
 T: 212.479.5400 F: 212.479.5444 www.langan.com  
 Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.  
 Langan Engineering and Environmental Services, Inc.  
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 Collectively known as Langan

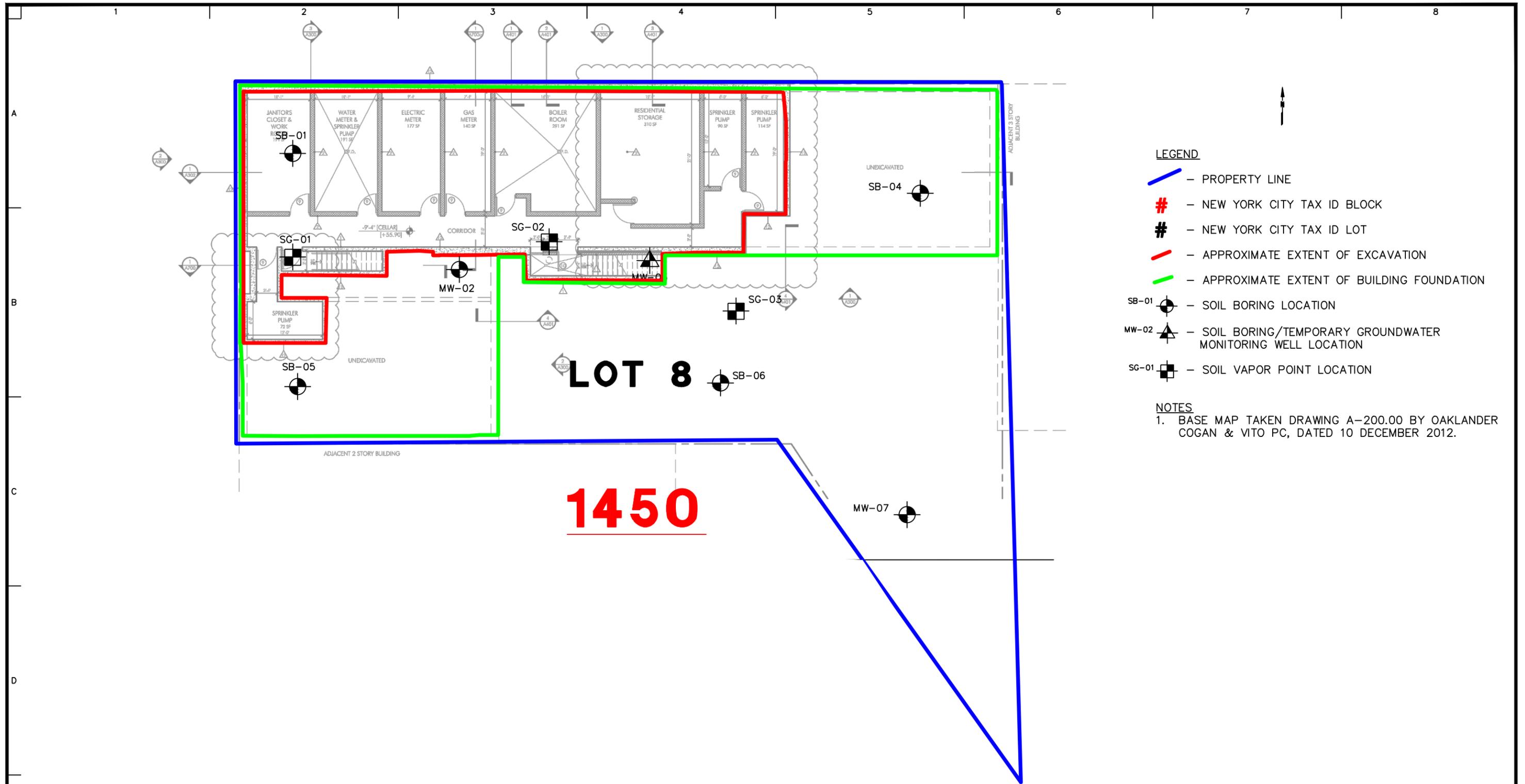
Project  
**REMEDIAL INVESTIGATION REPORT**  
**BLOCK No. 1450, LOT No. 8**  
**MOTHER GASTON BOULEVARD & DEAN STREET**  
**BROOKLYN NEW YORK**

Drawing Title  
**SITE LOCATION MAP**

Project No. 170157901	Figure No. <b>FG-02</b>
Date 06 MAY 2013	<b>FG-02</b>
Scale 1" = 50'	
Drawn By SPL	Sheet 2 of 7
Submission Date 06 MAY 2013	

Figure 3 Proposed Development Plan

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# LANGAN

21 Penn Plaza, 360 West 31st Street, 8th Floor  
 New York, NY 10001  
 T: 212.479.5400 F: 212.479.5444 www.langan.com  
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Project  
**REMEDIAL  
 INVESTIGATION  
 REPORT**  
 BLOCK No. 1450, LOT No. 8  
 MOTHER GASTON BOULEVARD & DEAN STREET  
**BROOKLYN NEW YORK**

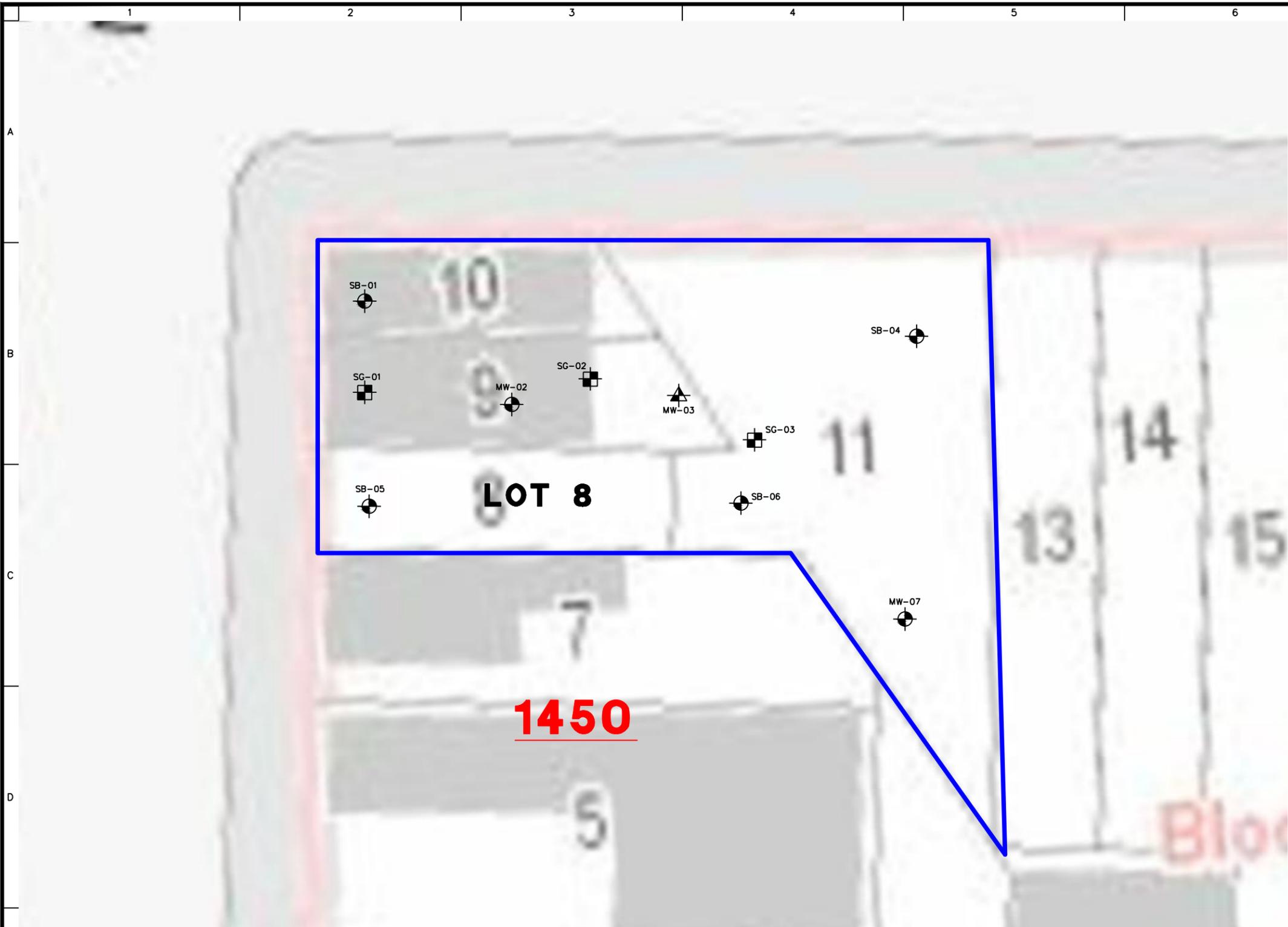
Drawing Title  
**PROPOSED  
 DEVELOPMENT  
 PLAN**

Project No.  
170157901  
 Date  
06 MAY 2013  
 Scale  
1" = 15'  
 Drawn By  
SPL  
 Submission Date  
06 MAY 2013

Figure No.  
**FG-03**  
 Sheet 3 of 7

Figure 4 Sample Location Map

---



**LEGEND**

-  - PROPERTY LINE
-  - NEW YORK CITY TAX ID BLOCK
-  - NEW YORK CITY TAX ID LOT
-  - SOIL BORING LOCATION
-  - SOIL BORING/ TEMPORARY GROUNDWATER MONITORING WELL LOCATION
-  - SOIL GAS VAPOR POINT LOCATION

**NOTES**

1. BASE MAP TAKEN FROM NEW YORK CITY OPEN ACCESSIBLE SPACE INFORMATION SYSTEM (OASIS) MAP. WWW.OASISNYC.NET

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

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Project  
**REMEDIAL INVESTIGATION REPORT**  
**BLOCK No. 1450, LOT No. 8**  
**MOTHER GASTON BOULEVARD & DEAN STREET**  
**BROOKLYN NEW YORK**

Drawing Title  
**SAMPLE LOCATIONS MAP**

Project No. 170157901	<b>FG-04</b>
Date 06 MAY 2013	
Scale 1" = 20'	
Drawn By SPL	
Submission Date 06 MAY 2013	Sheet 4 of 7

Figure 5      Map of Soil Chemistry Results

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Sample ID	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Use SCO - Restricted Residential	SB-01_0-2	SB-01_1-2	SB-01_6-7	SB-01_10-12	SB-01_10-11
Sampling Date			4/19/2013	4/19/2013	4/19/2013	4/19/2013	4/19/2013
Volatile Organic Compounds (VOCs) (mg/kg)							
			NA	NE	NE	NA	NE
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)							
Benzo(a)anthracene	1	1	NE	NA	<b>2.74</b>	D	NE
Benzo(a)pyrene	1	1	NE	NA	<b>2.46</b>	D	NE
Benzo(b)fluoranthene	1	1	NE	NA	<b>2.18</b>	D	NE
Benzo(k)fluoranthene	0.8	3.9	ND	NA	<b>2.31</b>	D	ND
Dibenz(a,h)anthracene	0.33	0.33	ND	NA	<b>0.718</b>	J,D	ND
Indeno(1,2,3-cd)pyrene	0.5	0.5	NE	NA	<b>1.22</b>	D	ND
Pesticides (mg/kg)							
4,4'-DDD	0.0033	13	ND	NA	<b>0.00496</b>	D	ND
4,4'-DDT	0.0033	7.9	<b>0.00370</b>	D	NA	NA	NE
Polychlorinated Biphenyls (PCB) (mg/kg)							
Total PCBs	0.1	1	ND	NA	NE	ND	NA
Total Metals (mg/kg)							
Cadmium	2.5	4.3	<b>3.52</b>	NA	NE	ND	NA
Copper	50	270	NE	NA	<b>95.9</b>	NE	NA
Lead	63	400	<b>75.9</b>	NA	<b>312</b>	NE	NA
Zinc	109	10000	NE	NA	<b>368</b>	NE	NA

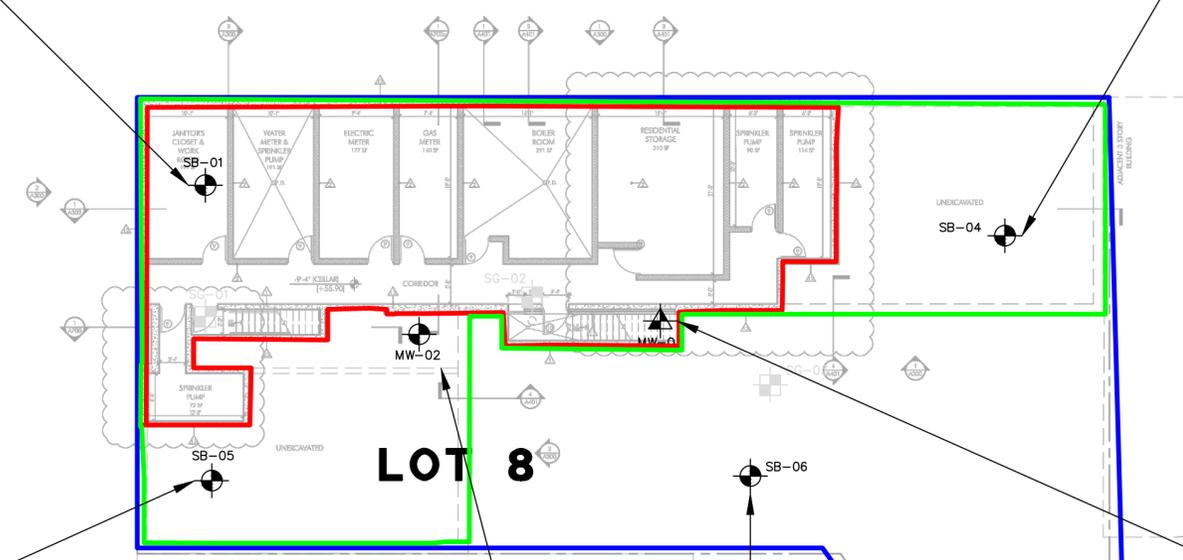
Sample ID	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Use SCO - Restricted Residential	SB-04_0-2	SB-04_1-2	SB-04_10-12	SB-04_11-12
Sampling Date			4/24/2013	4/24/2013	4/24/2013	4/24/2013
Volatile Organic Compounds (VOCs) (mg/kg)						
			NA	NE	NA	NE
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)						
Benzo(a)anthracene	1	1	<b>15.7</b>	D	NA	NE
Benzo(a)pyrene	1	1	<b>18.7</b>	D	NA	NE
Benzo(b)fluoranthene	1	1	<b>19.2</b>	D	NA	NE
Benzo(k)fluoranthene	0.8	3.9	<b>13.6</b>	D	NA	NE
Chrysene	1	3.9	<b>17.5</b>	D	NA	NE
Indeno(1,2,3-cd)pyrene	0.5	0.5	<b>1.97</b>	J,D	NA	ND
Pesticides (mg/kg)						
4,4'-DDD	0.0033	13	<b>0.0478</b>	D	NA	ND
4,4'-DDE	0.0033	8.9	<b>0.0309</b>	D	NA	D
4,4'-DDT	0.0033	7.9	<b>0.134</b>	D	NA	<b>0.00922</b>
Dieldrin	0.005	0.2	ND	U	NA	ND
Polychlorinated Biphenyls (PCB) (mg/kg)						
Total PCBs	0.1	1	ND	NA	ND	NA
Total Metals (mg/kg)						
Barium	350	400	<b>951</b>	NT	NE	NT
Copper	50	270	<b>116</b>	NT	NE	NT
Lead	63	400	<b>590</b>	NT	<b>112</b>	NT
Zinc	109	10000	<b>640</b>	NT	<b>642</b>	NT

**LEGEND**

- PROPERTY LINE
- # — NEW YORK CITY TAX ID BLOCK
- # — NEW YORK CITY TAX ID LOT
- SB-01 — SOIL BORING LOCATION
- MW-02 — SOIL BORING/TEMPORARY GROUNDWATER MONITORING WELL LOCATION
- SG-01 — SOIL VAPOR POINT LOCATION
- APPROXIMATE EXTENT OF EXCAVATION
- APPROXIMATE EXTENT OF BUILDING FOUNDATION

- NOTES**
- BASE MAP TAKEN DRAWING A-200.00 BY OAKLANDER COGAN & VITO PC, DATED 10 DECEMBER 2012
  - SOIL SAMPLE RESULTS WERE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES (SCO) AND PART 375 RESTRICTED USE RESTRICTED RESIDENTIAL SCO..
  - ONLY COMPOUNDS WITH CONCENTRATIONS EXCEEDING THEIR RESPECTIVE NYSDEC PART 375 UNRESTRICTED USE SCO ARE SHOWN.
  - NYSDEC PART 375 UNRESTRICTED USE SCO EXCEEDANCES ARE SHOWN IN BOLD.
  - NYSDEC PART 375 RESTRICTED USE RESTRICTED RESIDENTIAL SCO EXCEEDANCES ARE SHOWN IN BOLD AND UNDERLINED.

MG/KG = MILLIGRAM PER KILOGRAM  
 ND = ANALYTE NOT DETECTED  
 NE = NO EXCEEDANCE  
 NA = NOT ANALYZED  
 D = THE RESULT IS FROM AN ANALYSIS THAT REQUIRED A DILUTION.  
 E = THE CONCENTRATION INDICATED FOR THIS ANALYTE IS AN ESTIMATED VALUE ABOVE THE CALIBRATION RANGE OF THE INSTRUMENT. THIS VALUE IS CONSIDERED AN ESTIMATE..



Sample ID	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Use SCO - Restricted Residential	SB-05_0-2	SB-05_1-2	SB-05_10-12	SB-05_11-12
Sampling Date			4/19/2013	4/19/2013	4/19/2013	4/19/2013
Volatile Organic Compounds (VOCs) (mg/kg)						
			NA	NE	NA	NE
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)						
			NE	NA	NE	NA
Pesticides (mg/kg)						
4,4'-DDD	0.0033	13	ND	NA	ND	NA
4,4'-DDE	0.0033	8.9	<b>0.00486</b>	D	NA	ND
4,4'-DDT	0.0033	7.9	<b>0.0106</b>	D	NA	<b>0.00721</b>
Dieldrin	0.005	0.2	<b>0.0193</b>	D	NA	<b>0.00611</b>
Polychlorinated Biphenyls (PCB) (mg/kg)						
Total PCBs	0.1	1	ND	NA	ND	NA
Total Metals (mg/kg)						
Lead	63	400	<b>107</b>	NA	312	NE

Sample ID	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Use SCO - Restricted Residential	MW-02_0-2	MW-02_1-2	MW-02_10-12	MW-02_11-12
Sampling Date			4/24/2013	4/24/2013	4/24/2013	4/24/2013
Volatile Organic Compounds (VOCs) (mg/kg)						
			NA	NE	NA	ND
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)						
			ND	NA	ND	NA
Pesticides (mg/kg)						
4,4'-DDD	0.0033	13	<b>0.00507</b>	D	NA	ND
4,4'-DDE	0.0033	8.9	<b>0.0283</b>	D	NA	ND
4,4'-DDT	0.0033	7.9	<b>0.0964</b>	D	NA	<b>0.00459</b>
Polychlorinated Biphenyls (PCB) (mg/kg)						
Total PCBs	0.1	1	ND	NA	ND	NA
Total Metals (mg/kg)						
Lead	63	400	<b>104</b>	NA	NE	NA
Manganese	1600	2000	NE	NA	<b>3020</b>	E
Zinc	109	10000	<b>115</b>	NA	NE	NA

Sample ID	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Use SCO - Restricted Residential	SB-06_0-2	SB-06_1-2	SB-06_10-12	SB-06_11-12
Sampling Date			4/24/2013	4/24/2013	4/24/2013	4/24/2013
Volatile Organic Compounds (VOCs) (mg/kg)						
			NA	NE	NA	ND
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)						
Benzo(a)anthracene	1	1	<b>2.30</b>	J,D	NA	ND
Benzo(a)pyrene	1	1	<b>2.81</b>	J,D	NA	ND
Benzo(b)fluoranthene	1	1	<b>4.49</b>	D	NA	ND
Benzo(k)fluoranthene	0.8	3.9	<b>3.11</b>	D	NA	ND
Chrysene	1	3.9	<b>2.42</b>	J,D	NA	ND
Pesticides (mg/kg)						
4,4'-DDE	0.0033	8.9	<b>0.0264</b>	D	NA	ND
4,4'-DDT	0.0033	7.9	<b>0.0628</b>	D	NA	<b>0.00486</b>
Polychlorinated Biphenyls (PCB) (mg/kg)						
Total PCBs	0.1	1	ND	NA	ND	NA
Total Metals (mg/kg)						
Barium	350	400	<b>450</b>	NA	NE	NA
Copper	50	270	<b>61.0</b>	NA	NE	NA
Lead	63	400	<b>695</b>	NA	NE	NA
Selenium	3.9	180	NE	NA	<b>4.18</b>	NA
Zinc	109	10000	<b>226</b>	NA	NE	NA

Sample ID	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Use SCO - Restricted Residential	MW-03_0-2	MW-03_1-2	MW-03_10-12	MW-03_11-12
Sampling Date			4/24/2013	4/23/2013	4/24/2013	4/23/2013
Volatile Organic Compounds (VOCs) (mg/kg)						
			NA	NE	NA	ND
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)						
Benzo(a)anthracene	1	1	<b>15.6</b>	D	NA	NE
Benzo(a)pyrene	1	1	<b>21.6</b>	D	NA	NE
Benzo(b)fluoranthene	1	1	<b>21.9</b>	D	NA	NE
Benzo(k)fluoranthene	0.8	3.9	<b>16.0</b>	D	NA	NE
Chrysene	1	3.9	<b>19.7</b>	D	NA	NE
Indeno(1,2,3-cd)pyrene	0.5	0.5	<b>4.80</b>	J,D	NA	ND
Pesticides (mg/kg)						
4,4'-DDT	0.0033	7.9	<b>0.00625</b>	D	NA	ND
Polychlorinated Biphenyls (PCB) (mg/kg)						
Total PCBs	0.1	1	ND	NA	ND	NA
Total Metals (mg/kg)						
Lead	63	400	<b>352</b>	NA	NE	NA
Zinc	109	10000	<b>169</b>	NA	NE	NA

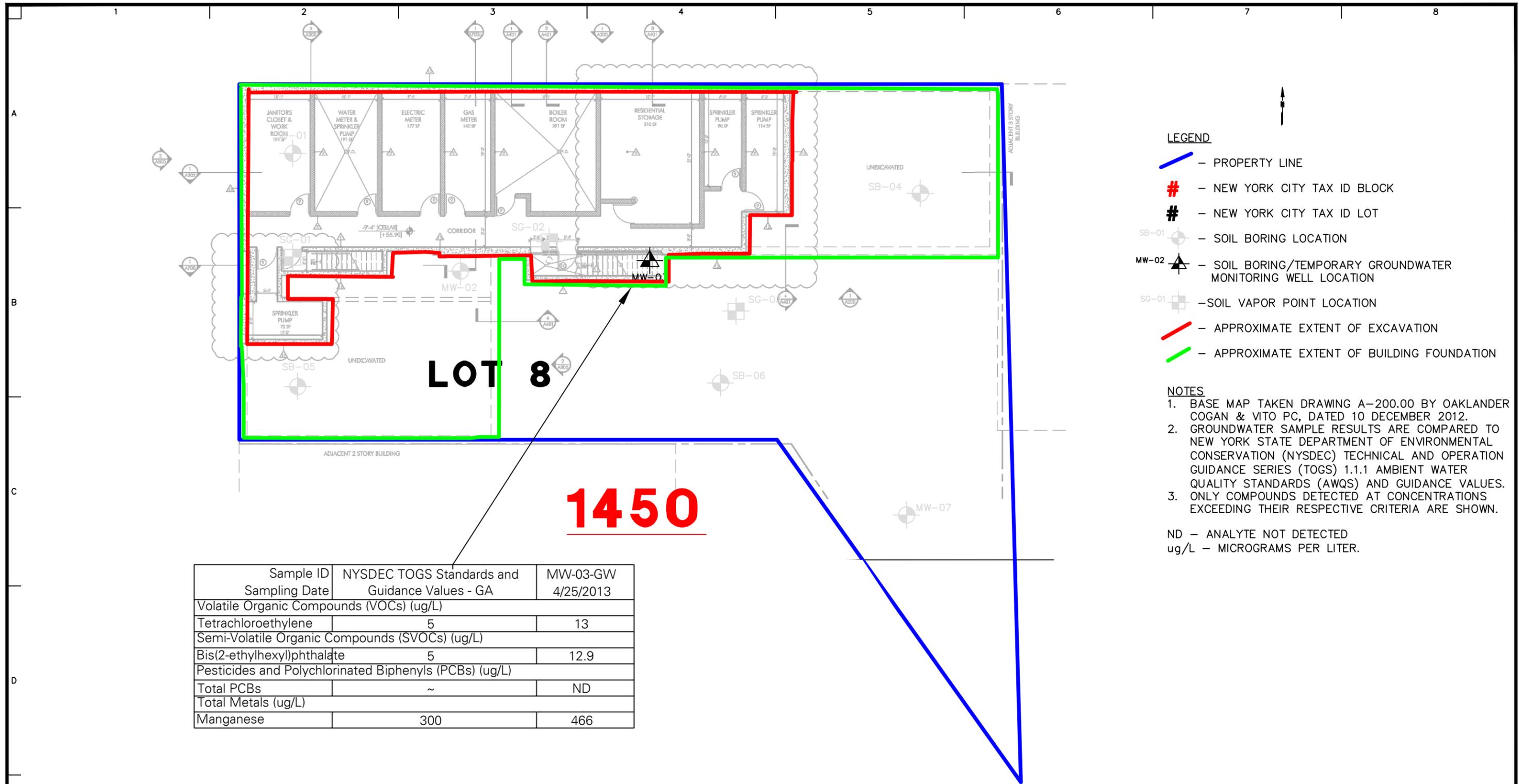
Sample ID	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Restricted Use SCO - Restricted Residential	MW-07_0-2	MW-07_1-2	MW-07_10-12	MW-07_11-12
Sampling Date			4/24/2013	4/24/2013	4/24/2013	4/24/2013
Volatile Organic Compounds (VOCs) (mg/kg)						
			NA	NE	NA	ND
Semi-Volatile Organic Compounds (SVOCs) (mg/kg)						
Benzo(a)anthracene	1	1	<b>1.82</b>	J,D	NA	ND
Benzo(a)pyrene	1	1	<b>2.52</b>	J,D	NA	ND
Benzo(k)fluoranthene	0.8	3.9	<b>2.50</b>	J,D	NA	ND
Chrysene	1	3.9	<b>1.40</b>	J,D	NA	ND
Indeno(1,2,3-cd)pyrene	0.5	0.5	<b>1.40</b>	J,D	NA	ND
Pesticides (mg/kg)						
4,4'-DDT	0.0033	7.9	<b>0.00604</b>	D	NA	ND
Polychlorinated Biphenyls (PCB) (mg/kg)						
Total PCBs	0.1	1	ND	NA	ND	NA
Total Metals (mg/kg)						
Barium	350	400	<b>442</b>	NA	NE	NA
Lead	63	400	<b>497</b>	NA	NE	NA
Zinc	109	10000	<b>390</b>	NA	NE	NA

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SIGNATURE _____ DATE SIGNED _____ PROFESSIONAL XXXXXXXXXX STATE LIC. No. XXXXX	21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com NEW JERSEY NEW YORK VIRGINIA CALIFORNIA PENNSYLVANIA CONNECTICUT FLORIDA ABU DHABI ATHENS DOHA DUBAI ESTABLISH Langan Engineering, Environmental, Surveying and Landscape Architecture, P.C. Langan Engineering and Environmental Services, Inc. Langan International LLC Collectively known as Langan	Project <b>REMEDIAL INVESTIGATION REPORT</b> BLOCK No. 1450, LOT No. 8 MOTHER GASTON BOULEVARD AND DEAN STREET BROOKLYN NEW YORK	Drawing Title <b>SOIL SAMPLE RESULTS MAP</b>	Project No. 170157901	Figure No. <b>FG-05</b>
				Date 07 MAY 2013	

Figure 6      Map of Groundwater Chemistry Results

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Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	MW-03-GW
Sampling Date		4/25/2013
Volatile Organic Compounds (VOCs) (ug/L)		
Tetrachloroethylene	5	13
Semi-Volatile Organic Compounds (SVOCs) (ug/L)		
Bis(2-ethylhexyl)phthalate	5	12.9
Pesticides and Polychlorinated Biphenyls (PCBs) (ug/L)		
Total PCBs	~	ND
Total Metals (ug/L)		
Manganese	300	466

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# LANGAN

21 Penn Plaza, 360 West 31st Street, 8th Floor  
New York, NY 10001

T: 212.479.5400 F: 212.479.5444 www.langan.com

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Langan Engineering and Environmental Services, Inc.  
Langan International LLC

Collectively known as Langan

Project

## REMEDIAL INVESTIGATION REPORT

BLOCK No. 1450, LOT No. 8

MOTHER GASTON BOULEVARD & DEAN STREET

BROOKLYN

NEW YORK

Drawing Title

## GROUNDWATER SAMPLE RESULTS MAP

Project No.  
170157901

Date  
06 MAY 2013

Scale  
1" = 15'

Drawn By  
SPL

Submission Date  
06 MAY 2013

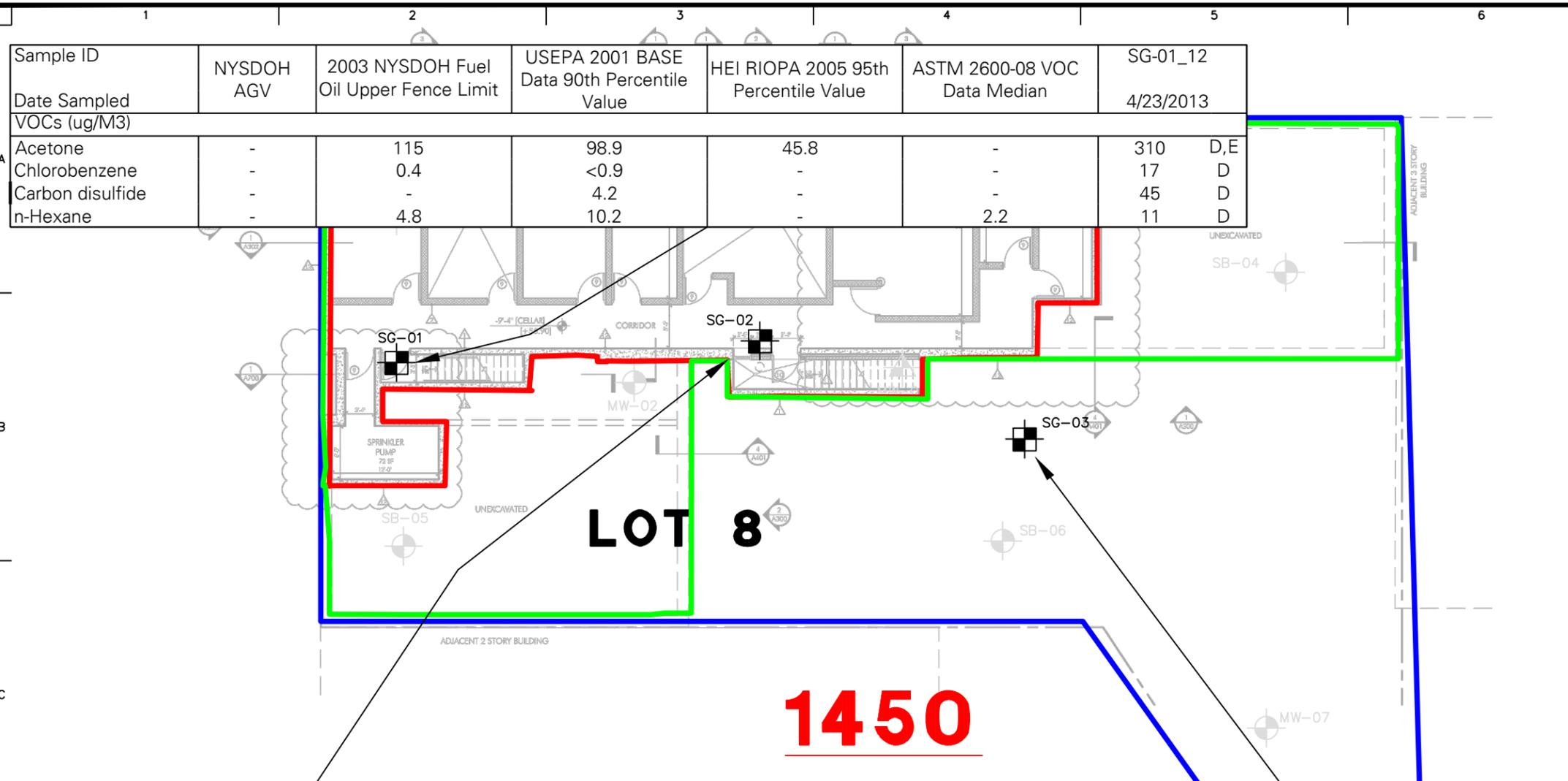
Figure No.

FG-06

Sheet 6 of 7

Figure 7      Map of Soil Vapor Chemistry Results

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- LEGEND**
- PROPERTY LINE
  - # NEW YORK CITY TAX ID BLOCK
  - # NEW YORK CITY TAX ID LOT
  - SB-01 SOIL BORING LOCATION
  - MW-02 SOIL BORING/TEMPORARY GROUNDWATER MONITORING WELL LOCATION
  - SG-01 SOIL VAPOR POINT LOCATION
  - APPROXIMATE EXTENT OF EXCAVATION
  - APPROXIMATE EXTENT OF BUILDING FOUNDATION

- NOTES**
1. BASE MAP TAKEN DRAWING A-200.00 BY OAKLANDER COGAN & VITO PC, DATED 10 DECEMBER 2012.
  2. SOIL VAPOR SAMPLE RESULTS WERE COMPARED TO THE NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) AIR GUIDELINE VALUES (AGV), NYSDOH 2003 FUEL OIL INDOOR AIR UPPER FENCE VALUES, U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA) 2001 BASE DATABASE 90TH PERCENTILE, HEALTH EFFECTS INSTITUTE (HEI) 2005 95TH PERCENTILE INDOOR AIR, AND ASTM E 2600-08 TABLE X7-SELECTED SUMMARY VOC DATA FROM RECENT U.S. STUDIES-MEDIAN DATA FROM OFFICE BUILDINGS.
  3. ONLY CONCENTRATIONS ABOVE THE SPECIFIED RANGE OF BACKGROUND LEVELS ARE SHOWN.
  4. CONCENTRATIONS ABOVE NYSDOH AGV ARE UNDERLINED AND SHOWN IN BOLD.

ug/m3 = MICROGRAMS PER CUBIC METER.  
 D = THE RESULT IS FROM AN ANALYSIS THAT REQUIRED A DILUTION.  
 E = THE CONCENTRATION INDICATED FOR THIS ANALYTE IS AN ESTIMATED VALUE ABOVE THE CALIBRATION RANGE OF THE INSTRUMENT. THIS VALUE IS CONSIDERED AN ESTIMATE..

Sample ID	NYSDOH AGV	2003 NYSDOH Fuel Oil Upper Fence Limit	USEPA 2001 BASE Data 90th Percentile Value	HEI RIOPA 2005 95th Percentile Value	ASTM 2600-08 VOC Data Median	SG-01_12
Date Sampled						4/23/2013
VOCs (ug/M3)						
Acetone	-	115	98.9	45.8	-	310 <u>D,E</u>
Chlorobenzene	-	0.4	<0.9	-	-	17 D
Carbon disulfide	-	-	4.2	-	-	45 D
n-Hexane	-	4.8	10.2	-	2.2	11 D

Sample ID	NYSDOH AGV	2003 NYSDOH Fuel Oil Upper Fence Limit	USEPA 2001 BASE Data 90th Percentile Value	HEI RIOPA 2005 95th Percentile Value	ASTM 2600-08 VOC Data Median	SG-03_12
Date Sampled						4/24/2013
VOCs (ug/M3)						
2-Butanone	-	16	12	-	-	34 D
Acetone	-	115	98.9	45.8	-	1100 D
Chlorobenzene	-	0.4	<0.9	-	-	24 D

Sample ID	NYSDOH AGV	2003 NYSDOH Fuel Oil Upper Fence Limit	USEPA 2001 BASE Data 90th Percentile Value	HEI RIOPA 2005 95th Percentile Value	ASTM 2600-08 VOC Data Median	SG-02_12
Date Sampled						4/23/2013
VOCs (ug/M3)						
Carbon disulfide	-	-	4.2	-	-	210 D
Methylene chloride	60	16	10	7.5	-	23 D
Tetrachloroethylene	100	2.5	15.9	6.01	3.2	65 D
Trichloroethylene	5	0.5	4.2	1.36	9.7	<b>7.9 D</b>

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**LANGAN**  
 21 Penn Plaza, 360 West 31st Street, 8th Floor  
 New York, NY 10001  
 T: 212.479.5400 F: 212.479.5444 www.langan.com  
 Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.  
 Langan Engineering and Environmental Services, Inc.  
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Project  
**REMEDIAL INVESTIGATION REPORT**  
**BLOCK No. 1450, LOT No. 8**  
**MOTHER GASTON BOULEVARD & DEAN STREET**  
**BROOKLYN NEW YORK**

Drawing Title  
**SOIL VAPOR SAMPLE RESULTS MAP**

Project No. 170157901	Figure No. <b>FG-07</b>
Date 06 MAY 2013	Sheet 7 of 7
Scale 1" = 15'	
Drawn By SPL	
Submission Date 06 MAY 2013	

## TABLES

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Table 1 Construction Details for Soil Borings and Monitoring Wells

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**Table 1. Construction Details for Soil Borings and Monitoring Wells**  
**Remedial Investigation Report**  
**Habitat for Humanity - New York City**  
**Mother Gaston Boulevard and Dean Street**  
**Brooklyn, New York**  
**Langan Project No. 170157901**

	<b>Date of Completion</b>	<b>Approximate Depth (ft BGS)</b>	<b>Screened Depth (ft BGS)</b>	<b>Construction Material</b>
<b><u>Soil Borings</u></b>				
SB-01	19-Apr-13	12	NA	NA
SB-04	24-Apr-13	12	NA	NA
SB-05	19-Apr-13	12	NA	NA
SB-06	24-Apr-13	12	NA	NA
MW-02	24-Apr-13	12	NA	NA
MW-03	23-Apr-13	65	NA	NA
MW-07	24-Apr-13	12	NA	NA
<b><u>Monitoring Wells</u></b>				
MW-03	23-Apr-13	65.0	60 to 65	PVC riser and pre-packed stainless steel screen
<b><u>Soil Vapor Wells</u></b>				
SG-01	19-Apr-13	12	NA	NA
SG-02	19-Apr-13	12	NA	NA
SG-03	23-Apr-13	12	NA	NA

**Notes:**

BGS = Below ground surface

Table 2 Summary of Samples Collected

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**Table 2. Summary of Samples Collected  
Remedial Investigation Report  
Habitat for Humanity - New York City  
Mother Gaston Boulevard and Dean Street  
Brooklyn, New York  
Langan Project No. 170157901**

Sample Name	Depth Interval (ft BGS)	Date	Max. PID Reading in Boring (ppm)	Sample Analyses
<b>Soil Samples</b>				
SB-01_0-2	0 - 2	19-Apr-13	7.0	SVOCs, PCBs, Pesticides and Metals
SB-01_1-2	1 - 2	19-Apr-13		VOCs
SB-01_6-7	6 - 7	19-Apr-13		VOCs, SVOCs, PCBs, Pesticides and Metals
SB-01_10-12	10 - 12	19-Apr-13		SVOCs, PCBs, Pesticides and Metals
SB-01_10-11	10 - 11	19-Apr-13		VOCs
SB-04_0-2	0 - 2	24-Apr-13	0.0	SVOCs, PCBs, Pesticides and Metals
SB-04_1-2	1 - 2	24-Apr-13		VOCs
SB-04_10-12	10 - 12	24-Apr-13		SVOCs, PCBs, Pesticides and Metals
SB-04_11-12	11 - 12	24-Apr-13		VOCs
SB-05_0-2	0 - 2	19-Apr-13	0.2	SVOCs, PCBs, Pesticides and Metals
SB-05_1-2	1 - 2	19-Apr-13		VOCs
SB-05_10-12	10 - 12	19-Apr-13		SVOCs, PCBs, Pesticides and Metals
SB-05_11-12	11 - 12	19-Apr-13		VOCs
SB-06_0-2	0 - 2	24-Apr-13	0.0	SVOCs, PCBs, Pesticides and Metals
SB-06_1-2	1 - 2	24-Apr-13		VOCs
SB-06_10-12	10 - 12	24-Apr-13		SVOCs, PCBs, Pesticides and Metals
SB-06_11-12	11 - 12	24-Apr-13		VOCs
MW-02_0-2	0 - 2	24-Apr-13	0.0	SVOCs, PCBs, Pesticides and Metals
MW-02_1-2	1 - 2	24-Apr-13		VOCs
MW-02_10-12	10 - 12	24-Apr-13		SVOCs, PCBs, Pesticides and Metals
MW-02_11-12	11 - 12	24-Apr-13		VOCs
MW-03_0-2	0 - 2	23-Apr-13	0.0	SVOCs, PCBs, Pesticides and Metals
MW-03_1-2	1 - 2	23-Apr-13		VOCs
MW-03_10-12	10 - 12	23-Apr-13		SVOCs, PCBs, Pesticides and Metals
MW-03_11-12	11 - 12	23-Apr-13		VOCs
MW-07_0-2	0 - 2	24-Apr-13	0.0	SVOCs, PCBs, Pesticides and Metals
MW-07_1-2	1 - 2	24-Apr-13		VOCs
MW-07_10-12	10 - 12	24-Apr-13		SVOCs, PCBs, Pesticides and Metals
MW-07_11-12	11 - 12	24-Apr-13		VOCs
<b>Groundwater Samples</b>				
MW-03-GW	---	25-Apr-13	NA	VOCs, SVOCs, PCBs, Pesticides and Metals (total and dissolved)
<b>Soil Vapor Samples</b>				
SG-01_12	---	23-Apr-13	0.0	VOCs
SG-02_12	---	23-Apr-13	0.0	
SG-03_12	---	24-Apr-13	0.0	

**Notes:**

3S = Below ground surface  
 NA = Not applicable  
 ) = Photoionization detector  
 s = Polychlorinated biphenyls

ppm = Parts per million  
 VOCs = Volatile organic compounds  
 SVOCs = Semi-volatile organic compounds  
 Soil types based on field observations.

Table 3 Soil Analytical Data Summary

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Table 3b. Soil Analytical Data Summary - All Results  
 Remedial Investigation Report  
 Habitat for Humanity - New York City  
 Mother Gaston Boulevard and Dean Street  
 Brooklyn, New York  
 Langan Project No. 170157901

Sample ID Laboratory ID Sampling Date and Time	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (mg/kg)	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential (mg/kg)	SB-01_0-2 13D0745-01 4/19/2013 1:15:00 PM		SB-01_1-2 13D0745-02 4/19/2013 1:15:00 PM		SB-01_6-7 13D0745-03 4/19/2013 1:30:00 PM		SB-01_10-12 13D0745-07 4/19/2013 2:00:00 PM		SB-01_10-11 13D0745-09 4/19/2013 2:00:00 PM		SB-04_0-2 13D0880-18 4/24/2013 3:00:00 PM		SB-04_1-2 13D0880-07 4/24/2013 3:00:00 PM		SB-04_10-12 13D0880-19 4/24/2013 3:00:00 PM		SB-04_11-12 13D0880-08 4/24/2013 3:00:00 PM		SB-05_0-2 13D0745-04 4/19/2013 9:48:00 AM		
			Compound	BOLD	Underline																		
<b>Volatile Organic Compounds (VOCs) (mg/kg)</b>																							
1,1,1-Trichloroethane	0.68	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,1,2,2-Tetrachloroethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,1,2-Trichloroethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,1-Dichloroethane	0.27	26	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,1-Dichloroethylene	0.33	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,2,4-Trichlorobenzene	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,2,4-Trimethylbenzene	3.6	52	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,2-Dibromo-3-chloropropane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,2-Dibromoethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,2-Dichloroethane	0.02	3.1	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,2-Dichloropropane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
1,3,5-Trimethylbenzene	8.4	52	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
2-Butanone	0.12	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
2-Hexanone	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
4-Methyl-2-pentanone	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Acetone	0.05	100	NT	0.0055	J	0.011	NT	NT	0.0066	J	NT	0.021	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT	
Benzene	0.06	4.8	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Bromodichloromethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Bromodifluoromethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Bromomethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Carbon disulfide	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Carbon tetrachloride	0.76	2.4	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Chlorobenzene	1.1	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Chloroethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Chloroform	0.37	49	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Chloromethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
cis-1,2-Dichloroethylene	0.25	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
cis-1,3-Dichloropropylene	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Dibromochloromethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Dichlorodifluoromethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Ethyl Benzene	1	41	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Methyl tert-butyl ether (MTBE)	0.93	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Methylene chloride	0.05	100	NT	0.011	NT	0.013	NT	NT	0.019	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
n-Butylbenzene	12	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
n-Propylbenzene	3.9	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Naphthalene	12	100	NT	0.0023	U	0.019	J	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
o-Xylene	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
p- & m-Xylenes	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
sec-Butylbenzene	11	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Styrene	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
tert-Butylbenzene	5.9	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Tetrachloroethylene	1.3	19	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Toluene	0.7	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
trans-1,2-Dichloroethylene	0.19	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
trans-1,3-Dichloropropylene	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Trichloroethylene	0.47	21	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Trichlorofluoromethane	~	~	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Vinyl Chloride	0.02	0.9	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
Xylenes, Total	0.26	100	NT	0.0023	U	0.0027	U	NT	0.0035	U	NT	0.0036	U	NT	0.0027	U	NT	0.0027	U	NT	0.0027	U	NT
<b>Semi-Volatile Organic Compounds (SVOCs) (mg/kg)</b>																							
1,2,4-Trichlorobenzene	~	~	0.0660	U	NT	0.357	U	0.0620	U	NT	1.07	U	NT	0.492	U	NT	0.336	U	NT	0.607	U	NT	0.607
1,2-Dichlorobenzene	1.1	100	0.119	U	NT	0.645	U	0.112	U	NT	1.93	U	NT	0.890	U	NT	0.607	U	NT	0.430	U	NT	0.293
1,3-Dichlorobenzene	2.4	49	0.0576	U	NT	0.312	U	0.0541	U</														

Table 3b. Soil Analytical Data Summary - All Results  
 Remedial Investigation Report  
 Habitat for Humanity - New York City  
 Mother Gaston Boulevard and Dean Street  
 Brooklyn, New York  
 Langan Project No. 170157901

Sample ID Laboratory ID Sampling Date and Time	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (mg/kg)	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential (mg/kg)	SB-01_0-2	SB-01_1-2	SB-01_6-7	SB-01_10-12	SB-01_10-11	SB-04_0-2	SB-04_1-2	SB-04_10-12	SB-04_11-12	SB-05_0-2
			13D0745-01 4/19/2013 1:15:00 PM	13D0745-02 4/19/2013 1:15:00 PM	13D0745-03 4/19/2013 1:30:00 PM	13D0745-07 4/19/2013 2:00:00 PM	13D0745-09 4/19/2013 2:00:00 PM	13D0880-18 4/24/2013 3:00:00 PM	13D0880-07 4/24/2013 3:00:00 PM	13D0880-19 4/24/2013 3:00:00 PM	13D0880-08 4/24/2013 3:00:00 PM	13D0745-04 4/19/2013 9:48:00 AM
4-Chlorophenyl phenyl ether	~	~	0.107 U	NT	0.578 U	0.100 U	NT	1.73 U	NT	0.797 U	NT	0.544 U
4-Nitroaniline	~	~	0.0755 U	NT	0.408 U	0.0709 U	NT	1.22 U	NT	0.563 U	NT	0.384 U
4-Nitrophenol	~	~	0.0685 U	NT	0.371 U	0.0644 U	NT	1.11 U	NT	0.511 U	NT	0.349 U
Acenaphthene	20	100	0.0660 U	NT	0.472 J,D	0.0620 U	NT	1.07 U	NT	0.492 U	NT	0.336 U
Acenaphthylene	100	100	0.0875 U	NT	0.474 U	0.0822 U	NT	1.42 U	NT	0.653 U	NT	0.446 U
Anthracene	100	100	0.0995 U	NT	1.17 D	0.0972 J	NT	3.03 D	NT	0.743 U	NT	0.507 U
Benzo(a)anthracene	1	1	0.169 J	NT	<b>2.74</b> D	0.0856 J	NT	<b>15.7</b> D	NT	0.917 J,D	NT	0.635 J,D
Benzo(a)pyrene	1	1	0.218 NT	NT	<b>2.46</b> D	0.0811 J	NT	<b>18.7</b> D	NT	0.550 J,D	NT	0.368 U
Benzo(b)fluoranthene	1	1	0.174 J	NT	<b>2.18</b> D	0.143 U	NT	<b>19.2</b> D	NT	1.14 U	NT	0.778 U
Benzo(k)fluoranthene	0.8	3.9	0.182 U	NT	<b>2.31</b> D	0.171 U	NT	<b>13.6</b> D	NT	1.36 U	NT	0.928 U
Benzo(e)fluoranthene	~	~	0.125 U	NT	0.675 U	0.117 U	NT	2.02 U	NT	0.930 U	NT	0.635 U
Benzo(g)fluoranthene	~	~	0.182 U	NT	0.987 U	0.171 U	NT	2.95 U	NT	1.36 U	NT	0.928 U
Benzyl butyl phthalate	~	~	0.101 U	NT	0.545 U	0.0945 U	NT	1.63 U	NT	0.751 U	NT	0.512 U
Bis(2-chloroethoxy)methane	~	~	0.0627 U	NT	0.339 U	0.0589 U	NT	1.02 U	NT	0.468 U	NT	0.319 U
Bis(2-chloroisopropyl)ether	~	~	0.0590 U	NT	0.503 U	0.0873 U	NT	1.51 U	NT	0.694 U	NT	0.473 U
Bis(2-ethylhexyl)phthalate	~	~	0.0642 U	NT	0.347 U	0.0603 U	NT	1.04 U	NT	0.479 U	NT	0.327 U
Chrysene	1	3.9	0.126 U	NT	0.681 U	0.118 U	NT	20.9 D	NT	0.939 U	NT	0.640 U
Di-n-butyl phthalate	~	~	0.182 U	NT	0.454 U	0.0887 J	NT	<b>17.5</b> D	NT	0.898 J,D	NT	0.683 J,D
Di-n-octyl phthalate	~	~	0.0740 U	NT	0.401 U	0.0695 U	NT	1.20 U	NT	0.552 U	NT	0.377 U
Dibenz(a,h)anthracene	0.33	0.33	0.0733 U	NT	<b>0.718</b> J,D	0.0588 U	NT	1.19 U	NT	0.547 U	NT	0.373 U
Dibenzofuran	7	59	0.0849 U	NT	0.641 J,D	0.0798 U	NT	1.38 U	NT	0.634 U	NT	0.433 U
Diethyl phthalate	~	~	0.114 U	NT	0.620 U	0.108 U	NT	1.85 U	NT	0.854 U	NT	0.583 U
Dimethyl phthalate	~	~	0.0813 U	NT	0.440 U	0.0763 U	NT	1.32 U	NT	0.607 U	NT	0.414 U
Fluoranthene	100	100	0.391 U	NT	6.78 D	0.149 J	NT	27.2 D	NT	1.84 D	NT	1.50 D
Fluorene	30	100	0.0875 U	NT	0.675 J,D	0.0822 U	NT	1.42 U	NT	0.653 U	NT	0.446 U
Hexachlorobenzene	0.33	1.2	0.108 U	NT	0.582 U	0.101 U	NT	1.74 U	NT	0.803 U	NT	0.548 U
Hexachlorobutadiene	~	~	0.0616 U	NT	0.334 U	0.0579 U	NT	0.998 U	NT	0.460 U	NT	0.314 U
Hexachlorocyclopentadiene	~	~	0.136 U	NT	0.734 U	0.127 U	NT	2.20 U	NT	1.01 U	NT	0.691 U
Hexachloroethane	~	~	0.0521 U	NT	0.282 U	0.0490 U	NT	0.844 U	NT	0.389 U	NT	0.265 U
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.122 J	NT	<b>3.22</b> D	0.0781 U	NT	<b>3.97</b> J,D	NT	0.620 U	NT	0.423 U
Isoxanthone	~	~	0.0827 U	NT	0.339 U	0.0589 U	NT	1.02 U	NT	0.468 U	NT	0.319 U
N-nitroso-di-n-propylamine	~	~	0.0609 U	NT	0.330 U	0.0572 U	NT	0.986 U	NT	0.454 U	NT	0.310 U
N-Nitrosodiphenylamine	~	~	0.0824 U	NT	0.446 U	0.0774 U	NT	1.33 U	NT	0.615 U	NT	0.420 U
Naphthalene	12	100	0.0448 U	NT	0.708 J,D	0.0421 U	NT	0.726 U	NT	0.335 U	NT	0.228 U
Nitrobenzene	~	~	0.0536 U	NT	0.290 U	0.0503 U	NT	0.868 U	NT	0.400 U	NT	0.273 U
Pentachlorophenol	0.8	6.7	0.137 U	NT	0.744 U	0.129 U	NT	2.23 U	NT	1.03 U	NT	0.700 U
Phenanthrene	100	100	0.220 U	NT	7.06 D	0.101 J	NT	17.1 D	NT	0.998 J,D	NT	0.767 J,D
Phenol	0.33	100	0.0787 U	NT	0.426 U	0.0740 U	NT	1.28 U	NT	0.588 U	NT	0.401 U
Pyrene	100	100	0.290 U	NT	9.64 D	0.167 J	NT	34.5 D	NT	1.55 D	NT	1.83 D
<b>Pesticides (mg/kg)</b>												
4,4'-DDD	0.0033	13	0.00180 U	NT	<b>0.00456</b> D	0.00169 U	NT	<b>0.0478</b> D	NT	0.00269 U	NT	0.00184 U
4,4'-DDE	0.0033	8.9	0.00180 U	NT	0.00259 D	0.00169 U	NT	<b>0.00349</b> D	NT	<b>0.00349</b> D	NT	<b>0.00486</b> D
4,4'-DDT	0.0033	7.9	<b>0.00370</b> D	NT	<b>0.0105</b> D	0.00207 D	NT	<b>0.134</b> D	NT	<b>0.00922</b> D	NT	<b>0.0106</b> D
Aldrin	0.005	0.097	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
alpha-BHC	0.02	0.48	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
Chlordane, total	~	~	0.00722 U	NT	0.00781 U	0.00678 U	NT	0.185 D	NT	0.108 U	NT	0.00735 U
Dieldrin	0.005	0.2	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	<b>0.0193</b> D
Heptachlor	0.042	2.1	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00403 D	NT	0.00269 U	NT	0.00184 U
beta-BHC	0.036	0.36	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
delta-BHC	0.04	100	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
Endosulfan I	2.4	24	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
Endosulfan II	2.4	24	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
Endosulfan sulfate	2.4	24	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
Endrin	0.014	11	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
Endrin aldehyde	~	~	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
Endrin ketone	~	~	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
gamma-BHC (Lindane)	0.1	1.3	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
Heptachlor epoxide	~	~	0.00180 U	NT	0.00195 U	0.00169 U	NT	0.00292 U	NT	0.00269 U	NT	0.00184 U
Methoxychlor	~	~	0.00902 U	NT	0.00977 U	0.00847 U	NT	0.0146 U	NT	0.0135 U	NT	0.00919 U
Toxaphene	~	~	0.0913 U	NT	0.0989 U	0.0858 U	NT	0.148 U	NT	0.136 U	NT	0.0930 U
<b>Polychlorinated Biphenyls (PCB) (mg/kg)</b>												
Aroclor 1016	~	~	0.0186 U	NT	0.0201 U	0.0175 U	NT	0.301 U	NT	0.0278 U	NT	0.0189 U
Aroclor 1221	~	~	0.0186 U	NT	0.0201 U	0.0175 U	NT	0.301 U	NT	0.0278 U	NT	0.0189 U
Aroclor 1232	~	~	0.0186 U	NT	0.0201 U	0.0175 U	NT	0.301 U	NT	0.0278 U	NT	0.0189 U
Aroclor 1242	~	~	0.0186 U	NT	0.0201 U	0.0175 U	NT	0.301 U	NT	0.0278 U	NT	0.0189 U
Aroclor 1248	~	~	0.0186 U	NT	0.0201 U	0.0175 U	NT	0.301 U	NT	0.0278 U	NT	0.0189 U
Aroclor 1254	~	~	0.0186 U	NT	0.0422 U	0.0175 U	NT	0.301 U	NT	0.0278 U	NT	0.0189 U
Aroclor 1260	~	~	0.0186 U	NT	0.0201 U	0.0175 U	NT	0.301 U	NT	0.0278 U	NT	0.0189 U
Total PCBs	0.1	1	0.00744 U	NT	0.0422 U	ND	NT	ND	NT	ND	NT	ND
<b>Total Metals (mg/kg)</b>												
Aluminum	~	~	7130	NT	6680	4100	NT	8240	NT	6650	NT	5730
Antimony	~	~	0.241 U	NT	0.636	0.226 U	NT	1.77	NT	0.239 U	NT	0.245 U
Arsenic	13	16	2.55	NT	4.28	1.78	NT	7.89	NT	2.94	NT	4.54
Barium	350	400	100	NT	281	22.6	NT	<b>951</b>	NT	203	NT	84.9
Beryllium	7.2	72	0.109 U	NT	0.118 U	0.103 U	NT	0.118 U	NT	0.109 U	NT	0.111 U
Cadmium	2.5	4.3	<b>3.52</b> U	NT	2.39	0.103 U	NT	1.17	NT	0.109 U	NT	0.111 U
Calcium	~	~	2360	NT	47400	807	NT	32300	NT	3080	NT	28100
Chromium	~	~	21.0	NT	19.2	11.6	NT	20.7	NT	13.7	NT	8.23
Cobalt	~	~	7.42	NT	6.68	5.72	NT	6.78	NT	6.59	NT	2.85
Copper	50	270	26.1	NT	<b>95.9</b>	20.9	NT	<b>116</b>	NT	28.5	NT	14.4
Iron	~	~	16500	NT	19900	19900	NT	27500	NT	22400	NT	7570
Lead	63	400	<b>75.9</b>	NT	<b>312</b>	7.06	NT	<b>590</b>	E	<b>112</b>	E	<b>107</b>
Magnesium	~	~	2380	NT	4040	1540	NT	4770	NT	2100	NT	2720
Manganese	1600	2000	287	NT	268	382	NT	417	NT	383	NT	156
Mercury	0.18	0.81	0.103 U	NT	0.111 U	0.0965 U	NT	0.111 U	NT	0.102 U	NT	0.105 U
Nickel	30	310	10.7	NT	11.7	6.40	NT	21.6	NT	10.9	NT	5.41
Potassium	~	~	1460	NT	1570	585	NT	1370	NT	860	NT	524
Selenium	3.9	180	2.15	NT</								

Table 3b. Soil Analytical Data Summary - All Results

Remedial Investigation Report  
 Habitat for Humanity - New York City  
 Mother Gaston Boulevard and Dean Street  
 Brooklyn, New York  
 Langan Project No. 170157901

Sample ID Laboratory ID Sampling Date and Time	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (mg/kg)	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential (mg/kg)	SB-05_1-2 13D0745-05 4/19/2013 9:48:00 AM	SB-05_10-12 13D0745-06 4/19/2013 10:30:00 AM	SB-05_11-12 13D0745-08 4/19/2013 10:30:00 AM	SB-06_0-2 13D0880-20 4/24/2013 3:00:00 PM	SB-06_1-2 13D0880-09 4/24/2013 3:00:00 PM	SB-06_10-12 13D0880-21 4/24/2013 3:00:00 PM	SB-06_11-12 13D0880-24 4/24/2013 3:00:00 PM	MW-02_0-2 13D0880-16 4/24/2013 3:00:00 PM	MW-02_1-2 13D0880-05 4/24/2013 3:00:00 PM	MW-02_10-12 13D0880-17 4/24/2013 3:00:00 PM
<b>Volatile Organic Compounds (VOCs) (mg/kg)</b>			<b>BOLD Underline</b>									
1,1,1-Trichloroethane	0.68	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,1,2,2-Tetrachloroethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,1,2-Trichloroethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,1-Dichloroethane	0.27	26	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,1-Dichloroethylene	0.33	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,2,4-Trichlorobenzene	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,2,4-Trimethylbenzene	3.6	52	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,2-Dibromo-3-chloropropane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,2-Dibromoethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,2-Dichloroethane	0.02	3.1	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,2-Dichloropropane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
1,3,5-Trimethylbenzene	8.4	52	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
2-Butanone	0.12	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
2-Hexanone	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
4-Methyl-2-pentanone	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Acetone	0.05	100	0.0072 J	NT	0.011	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Benzene	0.06	4.8	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Bromodichloromethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Bromomethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Bromomethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Carbon disulfide	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Carbon tetrachloride	0.76	2.4	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Chlorobenzene	1.1	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Chloroethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Chloroform	0.37	49	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Chloromethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
cis-1,2-Dichloroethylene	0.25	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
cis-1,3-Dichloropropylene	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Dibromochloromethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Dichlorodifluoromethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Ethyl Benzene	1	41	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Methyl tert-butyl ether (MTBE)	0.93	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Methylene chloride	0.05	100	0.0094	NT	0.012	NT	0.0023 J	NT	0.0052 U	NT	0.0025 J	NT
n-Butylbenzene	12	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
n-Propylbenzene	3.9	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Naphthalene	12	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
o-Xylene	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
p- & m- Xylenes	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
sec-Butylbenzene	11	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Styrene	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
tert-Butylbenzene	5.9	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Tetrachloroethylene	1.3	19	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Toluene	0.7	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
trans-1,2-Dichloroethylene	0.19	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
trans-1,3-Dichloropropylene	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Trichloroethylene	0.47	21	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Trichlorofluoromethane	~	~	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Vinyl Chloride	0.02	0.9	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
Xylenes, Total	0.26	100	0.0023 U	NT	0.0023 U	NT	0.0023 U	NT	0.0052 U	NT	0.0023 U	NT
<b>Semi-Volatile Organic Compounds (SVOCs) (mg/kg)</b>												
1,2,4-Trichlorobenzene	~	~	NT	0.0631 U	NT	1.06 U	NT	0.0955 U	NT	0.963 U	NT	1.02 U
1,2-Dichlorobenzene	1.1	100	NT	0.114 U	NT	1.92 U	NT	0.172 U	NT	1.74 U	NT	1.84 U
1,3-Dichlorobenzene	2.4	49	NT	0.0551 U	NT	0.926 U	NT	0.0833 U	NT	0.841 U	NT	0.888 U
1,4-Dichlorobenzene	1.8	13	NT	0.107 U	NT	1.81 U	NT	0.162 U	NT	1.64 U	NT	1.73 U
2,4,5-Trichlorophenol	~	~	NT	0.135 U	NT	2.27 U	NT	0.205 U	NT	2.06 U	NT	2.18 U
2,4,6-Trichlorophenol	~	~	NT	0.0886 U	NT	1.49 U	NT	0.134 U	NT	1.35 U	NT	1.43 U
2,4-Dichlorophenol	~	~	NT	0.142 U	NT	2.39 U	NT	0.215 U	NT	2.17 U	NT	2.29 U
2,4-Dimethylphenol	~	~	NT	0.122 U	NT	2.05 U	NT	0.185 U	NT	1.86 U	NT	1.97 U
2,4-Dinitrophenol	~	~	NT	0.146 U	NT	2.46 U	NT	0.222 U	NT	2.23 U	NT	2.36 U
2,4-Dinitrotoluene	~	~	NT	0.0771 U	NT	1.30 U	NT	0.117 U	NT	1.18 U	NT	1.24 U
2,6-Dinitrotoluene	~	~	NT	0.0896 U	NT	1.51 U	NT	0.136 U	NT	1.37 U	NT	1.45 U
2-Chloronaphthalene	~	~	NT	0.0942 U	NT	1.58 U	NT	0.142 U	NT	1.44 U	NT	1.52 U
2-Chlorophenol	~	~	NT	0.0576 U	NT	0.967 U	NT	0.0870 U	NT	0.878 U	NT	0.928 U
2-Methylnaphthalene	~	~	NT	0.134 U	NT	2.25 U	NT	0.203 U	NT	2.04 U	NT	2.16 U
2-Methylphenol	0.33	100	NT	0.0663 U	NT	1.11 U	NT	0.100 U	NT	1.01 U	NT	1.07 U
2-Nitroaniline	~	~	NT	0.152 U	NT	2.56 U	NT	0.230 U	NT	2.32 U	NT	2.45 U
2-Nitrophenol	~	~	NT	0.0474 U	NT	0.797 U	NT	0.0717 U	NT	0.724 U	NT	0.765 U
3,3'-Dichlorobenzidine	~	~	NT	0.0914 U	NT	1.54 U	NT	0.138 U	NT	1.39 U	NT	1.47 U
3- & 4-Methylphenols	~	~	NT	0.0757 U	NT	1.27 U	NT	0.114 U	NT	1.15 U	NT	1.22 U
3-Nitroaniline	~	~	NT	0.173 U	NT	2.91 U	NT	0.262 U	NT	2.64 U	NT	2.79 U
4,6-Dinitro-2-methylphenol	~	~	NT	0.220 U	NT	3.69 U	NT	0.332 U	NT	3.35 U	NT	3.54 U
4-Bromophenyl phenyl ether	~	~	NT	0.0841 U	NT	1.41 U	NT	0.127 U	NT	1.28 U	NT	1.36 U
4-Chloro-3-methylphenol	~	~	NT	0.118 U	NT	1.98 U	NT	0.178 U	NT	1.79 U	NT	1.89 U
4-Chloroaniline	~	~	NT	0.0453 U	NT	0.762 U	NT	0.0686 U	NT	0.692 U	NT	0.731 U

Table 3b. Soil Analytical Data Summary - All Results  
Remedial Investigation Report  
Habitat for Humanity - New York City  
Mother Gaston Boulevard and Dean Street  
Brooklyn, New York  
Langan Project No. 170157901

Sample ID Laboratory ID Sampling Date and Time	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (mg/kg)	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential (mg/kg)	SB-05_1-2 13D0745-05 4/19/2013 9:48:00 AM	SB-05_10-12 13D0745-06 4/19/2013 10:30:00 AM	SB-05_11-12 13D0745-08 4/19/2013 10:30:00 AM	SB-06_0-2 13D0880-20 4/24/2013 3:00:00 PM	SB-06_1-2 13D0880-09 4/24/2013 3:00:00 PM	SB-06_10-12 13D0880-21 4/24/2013 3:00:00 PM	SB-06_11-12 13D0880-24 4/24/2013 3:00:00 PM	MW-02_0-2 13D0880-16 4/24/2013 3:00:00 PM	MW-02_1-2 13D0880-05 4/24/2013 3:00:00 PM	MW-02_10-12 13D0880-17 4/24/2013 3:00:00 PM
<b>Compound</b>												
4-Chlorophenyl phenyl ether	~	~	NT	0.102 U	NT	1.72 U	NT	0.155 U	NT	1.56 U	NT	1.65 U
4-Nitroaniline	~	~	NT	0.0722 U	NT	1.21 U	NT	0.109 U	NT	1.10 U	NT	1.16 U
4-Nitrophenol	~	~	NT	0.0656 U	NT	1.10 U	NT	0.0992 U	NT	1.00 U	NT	1.06 U
Acenaphthene	20	100	NT	0.0631 U	NT	1.06 U	NT	0.0955 U	NT	0.963 U	NT	1.02 U
Acenaphthylene	100	100	NT	0.0837 U	NT	1.41 U	NT	0.127 U	NT	1.28 U	NT	1.35 U
Anthracene	100	100	NT	0.0952 U	NT	1.60 U	NT	0.144 U	NT	1.45 U	NT	1.54 U
Benzo(a)anthracene	1	1	NT	0.103 J	NT	2.30 J,D	NT	0.0986 U	NT	0.995 U	NT	1.05 U
Benzo(a)pyrene	1	1	NT	0.0963 J	NT	2.81 J,D	NT	0.104 U	NT	1.05 U	NT	1.11 U
Benzo(b)fluoranthene	1	1	NT	0.146 U	NT	4.49 D	NT	0.221 U	NT	2.23 U	NT	2.36 U
Benzo(k)fluoranthene	100	100	NT	0.0579 U	NT	0.977 U	NT	0.0676 U	NT	0.683 U	NT	0.933 U
Benzo(e)fluoranthene	0.8	3.9	NT	0.174 U	NT	3.11 D	NT	0.264 U	NT	2.66 U	NT	2.81 U
Benzoic acid	~	~	NT	0.119 U	NT	2.00 U	NT	0.180 U	NT	1.82 U	NT	1.92 U
Benzyl alcohol	~	~	NT	0.174 U	NT	2.93 U	NT	0.264 U	NT	2.66 U	NT	2.81 U
Benzyl butyl phthalate	~	~	NT	0.0963 U	NT	1.62 U	NT	0.146 U	NT	1.47 U	NT	1.55 U
Bis(2-chloroethoxy)methane	~	~	NT	0.0600 U	NT	1.01 U	NT	0.0907 U	NT	0.915 U	NT	0.967 U
Bis(2-chloroethyl)ether	~	~	NT	0.0889 U	NT	1.49 U	NT	0.135 U	NT	1.36 U	NT	1.43 U
Bis(2-chloroisopropyl)ether	~	~	NT	0.0614 U	NT	1.03 U	NT	0.0928 U	NT	0.936 U	NT	0.990 U
Bis(2-ethylhexyl)phthalate	~	~	NT	0.300 U	NT	2.02 U	NT	0.182 U	NT	1.84 U	NT	1.94 U
Chrysene	1	3.9	NT	0.112 J	NT	2.42 J,D	NT	0.121 U	NT	1.22 U	NT	1.29 U
Di-n-butyl phthalate	~	~	NT	0.0708 U	NT	1.19 U	NT	0.107 U	NT	1.08 U	NT	1.14 U
Di-n-octyl phthalate	~	~	NT	0.174 U	NT	2.93 U	NT	0.264 U	NT	2.66 U	NT	2.81 U
Dibenzofluoranthene	0.33	0.33	NT	0.0701 U	NT	1.18 U	NT	0.106 U	NT	1.07 U	NT	1.13 U
Dibenzofuran	7	59	NT	0.0813 U	NT	1.37 U	NT	0.123 U	NT	1.24 U	NT	1.31 U
Diethyl phthalate	~	~	NT	0.110 U	NT	1.84 U	NT	0.166 U	NT	1.67 U	NT	1.77 U
Dimethyl phthalate	~	~	NT	0.0778 U	NT	1.31 U	NT	0.118 U	NT	1.19 U	NT	1.25 U
Fluoranthene	100	100	NT	0.223 U	NT	4.07 D	NT	0.155 U	NT	1.56 U	NT	1.65 U
Fluorene	30	100	NT	0.0837 U	NT	1.41 U	NT	0.127 U	NT	1.28 U	NT	1.35 U
Hexachlorobenzene	0.33	1.2	NT	0.103 U	NT	1.73 U	NT	0.156 U	NT	1.57 U	NT	1.66 U
Hexachlorobutadiene	~	~	NT	0.0589 U	NT	0.991 U	NT	0.0891 U	NT	0.899 U	NT	0.950 U
Hexachlorocyclopentadiene	~	~	NT	0.130 U	NT	2.18 U	NT	0.196 U	NT	1.98 U	NT	2.09 U
Hexachloroethane	~	~	NT	0.0499 U	NT	0.838 U	NT	0.0754 U	NT	0.761 U	NT	0.804 U
Indeno(1,2,3-cd)pyrene	0.5	0.5	NT	0.0795 U	NT	1.34 U	NT	0.120 U	NT	1.21 U	NT	1.28 U
Isochlorone	~	~	NT	0.0600 U	NT	1.01 U	NT	0.0907 U	NT	0.915 U	NT	0.967 U
N-nitroso-di-n-propylamine	~	~	NT	0.0582 U	NT	0.979 U	NT	0.0881 U	NT	0.888 U	NT	0.939 U
N-Nitrosodiphenylamine	~	~	NT	0.0788 U	NT	1.32 U	NT	0.119 U	NT	1.20 U	NT	1.27 U
Naphthalene	12	100	NT	0.0429 U	NT	0.721 U	NT	0.0649 U	NT	0.654 U	NT	0.692 U
Nitrobenzene	~	~	NT	0.0513 U	NT	0.862 U	NT	0.0775 U	NT	0.782 U	NT	0.827 U
Pentachlorophenol	0.8	6.7	NT	0.131 U	NT	2.21 U	NT	0.199 U	NT	2.01 U	NT	2.12 U
Phenanthrene	100	100	NT	0.153 J	NT	3.26 D	NT	0.138 U	NT	1.39 U	NT	1.47 U
Phenol	0.33	100	NT	0.0753 U	NT	1.27 U	NT	0.114 U	NT	1.15 U	NT	1.21 U
Pyrene	100	100	NT	0.257 U	NT	4.75 D	NT	0.114 J	NT	1.22 J,D	NT	1.15 U
<b>Pesticides (mg/kg)</b>												
4,4'-DDD	0.0033	13	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00507 D	NT	0.00278 U
4,4'-DDE	0.0033	8.9	NT	0.00173 U	NT	0.0264 D	NT	0.00261 U	NT	0.0283 D	NT	0.00278 U
4,4'-DDT	0.0033	7.9	NT	0.00721 D	NT	0.0628 D	NT	0.00486 D	NT	0.0964 D	NT	0.00459 D
Aldrin	0.005	0.097	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
alpha-BHC	0.02	0.48	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Chlordane, total	~	~	NT	0.00691 U	NT	0.0264 D	NT	0.0104 U	NT	0.0213 D	NT	0.0111 U
Dieldrin	0.005	0.2	NT	0.00611 D	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Heptachlor	0.042	2.1	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
beta-BHC	0.036	0.36	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
delta-BHC	0.04	100	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Endosulfan I	2.4	24	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Endosulfan II	2.4	24	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Endosulfan sulfate	2.4	24	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Endrin	0.014	11	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Endrin aldehyde	~	~	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Endrin ketone	~	~	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
gamma-BHC (Lindane)	0.1	1.3	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Heptachlor epoxide	~	~	NT	0.00173 U	NT	0.00290 U	NT	0.00261 U	NT	0.00263 U	NT	0.00278 U
Methoxychlor	~	~	NT	0.00863 U	NT	0.0145 U	NT	0.0131 U	NT	0.0132 U	NT	0.0139 U
Toxaphene	~	~	NT	0.0874 U	NT	0.147 U	NT	0.132 U	NT	0.133 U	NT	0.141 U
<b>Polychlorinated Biphenyls (PCB) (mg/kg)</b>												
Aroclor 1016	~	~	NT	0.0178 U	NT	0.0299 U	NT	0.0269 U	NT	0.0271 U	NT	0.0287 U
Aroclor 1221	~	~	NT	0.0178 U	NT	0.0299 U	NT	0.0269 U	NT	0.0271 U	NT	0.0287 U
Aroclor 1232	~	~	NT	0.0178 U	NT	0.0299 U	NT	0.0269 U	NT	0.0271 U	NT	0.0287 U
Aroclor 1242	~	~	NT	0.0178 U	NT	0.0299 U	NT	0.0269 U	NT	0.0271 U	NT	0.0287 U
Aroclor 1248	~	~	NT	0.0178 U	NT	0.0299 U	NT	0.0269 U	NT	0.0271 U	NT	0.0287 U
Aroclor 1254	~	~	NT	0.0178 U	NT	0.0299 U	NT	0.0269 U	NT	0.0271 U	NT	0.0287 U
Aroclor 1260	~	~	NT	0.0178 U	NT	0.0299 U	NT	0.0269 U	NT	0.0271 U	NT	0.0287 U
Total PCBs	0.1	1	NT	ND	NT	ND	NT	ND	NT	ND	NT	ND
<b>Total Metals (mg/kg)</b>												
Aluminum	~	~	NT	5180 U	NT	9940 U	NT	9090 U	NT	7200 U	NT	4530 U
Antimony	~	~	NT	0.230 U	NT	0.628 U	NT	0.232 U	NT	0.546 U	NT	0.247 U
Arsenic	13	16	NT	2.34 U	NT	8.47 U	NT	5.14 U	NT	3.39 U	NT	3.32 U
Barium	350	400	NT	49.4 U	NT	450 U	NT	36.9 U	NT	134 U	NT	89.0 U
Beryllium	7.2	72	NT	0.105 U	NT	0.117 U	NT	0.105 U	NT	0.106 U	NT	0.112 U
Cadmium	2.5	4.3	NT	0.105 U	NT	0.117 U	NT	0.105 U	NT	0.106 U	NT	0.112 U
Calcium	~	~	NT	4190 U	NT	3890 U	NT	1930 U	NT	4750 U	NT	2360 U
Chromium	~	~	NT	12.6 U	NT	18.3 U	NT	27.4 U	NT	16.3 U	NT	34.7 U
Cobalt	~	~	NT	5.47 U	NT	5.98 U	NT	9.02 U	NT	5.98 U	NT	4.53 U
Copper	50	270	NT	24.1 U	NT	61.0 U	NT	28.6 U	NT	27.2 U	NT	18.1 U
Iron	~	~	NT	22200 U	NT	15900 U	NT	38800 U	NT	17500 U	NT	20300 U
Lead	63	400	NT	29.1 U	E	695 U	NT	21.5 U	E	104 U	NT	17.3 U
Magnesium	~	~	NT	1590 U	NT	1570 U	NT	2780 U	NT	2150 U	NT	1270 U
Manganese	1600	2000	NT	433 U	NT	267 U	NT	702 U	NT	319 U	NT	3020 E
Mercury	0.18	0.81	NT	0.0984 U	NT	0.110 U	NT	0.0992 U	NT	0.100 U	NT	0.106 U
Nickel	30	310	NT	8.22 U	NT	13.3 U	NT	17.8 U	NT	12.8 U	NT	12.8 U
Potassium	~	~	NT	638 U	NT	717 U	NT	815 U	NT	1140 U	NT	856 U
Selenium	3.9	180	NT	3.83 U	NT	1.97 U	NT	4.18 U	NT	1.92 U	NT	3.14 U
Silver	2	180	NT	0.105 U	NT	0.						

Table 3b. Soil Analytical Data Summary - All Results  
 Remedial Investigation Report  
 Habitat for Humanity - New York City  
 Mother Gaston Boulevard and Dean Street  
 Brooklyn, New York  
 Langan Project No. 170157901

Sample ID Laboratory ID Sampling Date and Time	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (mg/kg)	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential (mg/kg)	MW-02_11-12 13D0880-06 4/24/2013 3:00:00 PM	MW-03_0-2 13D0880-12 4/23/2013 3:00:00 PM	MW-03_1-2 13D0880-01 4/23/2013 3:00:00 PM	MW-03_10-12 13D0880-13 4/23/2013 3:00:00 PM	MW-03_11-12 13D0880-02 4/23/2013 3:00:00 PM	MW-07_0-2 13D0880-22 4/24/2013 3:00:00 PM	MW-07_1-2 13D0880-10 4/24/2013 3:00:00 PM	MW-07_10-12 13D0880-23 4/24/2013 3:00:00 PM	MW-07_11-12 13D0880-11 4/24/2013 3:00:00 PM
<b>Volatile Organic Compounds (VOCs) (mg/kg)</b>											
	<b>BOLD</b>	<b>Underline</b>									
1,1,1-Trichloroethane	0.68	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,1,2,2-Tetrachloroethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,1,2-Trichloroethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,1-Dichloroethane	0.27	26	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,1-Dichloroethylene	0.33	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,2,4-Trichlorobenzene	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,2,4-Trimethylbenzene	3.6	52	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,2-Dibromo-3-chloropropane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,2-Dibromoethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,2-Dichloroethane	0.02	3.1	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,2-Dichloropropane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
1,3,5-Trimethylbenzene	8.4	52	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
2-Butanone	0.12	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
2-Hexanone	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
4-Methyl-2-pentanone	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Acetone	0.05	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Benzene	0.06	4.8	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Bromodichloromethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Bromomethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Carbon disulfide	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Carbon tetrachloride	0.76	2.4	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Chlorobenzene	1.1	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Chloroethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Chloroform	0.37	49	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Chloromethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
cis-1,2-Dichloroethylene	0.25	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
cis-1,3-Dichloropropylene	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Dibromochloromethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Dichlorodifluoromethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Ethyl Benzene	1	41	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Methyl tert-butyl ether (MTBE)	0.93	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Methylene chloride	0.05	100	0.0033 J	NT	0.0023 J	NT	0.0027 U	NT	0.0025 J	NT	0.0030 J
n-Butylbenzene	12	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
n-Propylbenzene	3.9	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Naphthalene	12	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
o-Xylene	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
p- & m- Xylenes	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
sec-Butylbenzene	11	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Styrene	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
tert-Butylbenzene	5.9	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Tetrachloroethylene	1.3	19	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Toluene	0.7	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
trans-1,2-Dichloroethylene	0.19	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
trans-1,3-Dichloropropylene	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Trichloroethylene	0.47	21	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Trichlorofluoromethane	~	~	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Vinyl Chloride	0.02	0.9	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
Xylenes, Total	0.26	100	0.0028 U	NT	0.0023 U	NT	0.0027 U	NT	0.0023 U	NT	0.0027 U
<b>Semi-Volatile Organic Compounds (SVOCs) (mg/kg)</b>											
1,2,4-Trichlorobenzene	~	~	NT	3.98 U	NT	0.0994 U	NT	1.06 U	NT	0.115 U	NT
1,2-Dichlorobenzene	1.1	100	NT	3.59 U	NT	0.180 U	NT	1.91 U	NT	0.207 U	NT
1,3-Dichlorobenzene	2.4	49	NT	1.73 U	NT	0.0868 U	NT	0.921 U	NT	0.100 U	NT
1,4-Dichlorobenzene	1.8	13	NT	3.38 U	NT	0.169 U	NT	1.80 U	NT	0.195 U	NT
2,4,5-Trichlorophenol	~	~	NT	4.25 U	NT	0.213 U	NT	2.26 U	NT	0.246 U	NT
2,4,6-Trichlorophenol	~	~	NT	2.79 U	NT	0.139 U	NT	1.48 U	NT	0.161 U	NT
2,4-Dichlorophenol	~	~	NT	4.47 U	NT	0.224 U	NT	2.38 U	NT	0.259 U	NT
2,4-Dimethylphenol	~	~	NT	3.84 U	NT	0.192 U	NT	2.04 U	NT	0.222 U	NT
2,4-Dinitrophenol	~	~	NT	4.61 U	NT	0.231 U	NT	2.45 U	NT	0.266 U	NT
2,4-Dinitrotoluene	~	~	NT	2.42 U	NT	0.121 U	NT	1.29 U	NT	0.140 U	NT
2,6-Dinitrotoluene	~	~	NT	2.82 U	NT	0.141 U	NT	1.50 U	NT	0.163 U	NT
2-Chloronaphthalene	~	~	NT	2.96 U	NT	0.148 U	NT	1.57 U	NT	0.171 U	NT
2-Chlorophenol	~	~	NT	1.81 U	NT	0.0906 U	NT	0.962 U	NT	0.105 U	NT
2-Methylnaphthalene	~	~	NT	4.21 U	NT	0.211 U	NT	2.24 U	NT	0.244 U	NT
2-Methylphenol	0.33	100	NT	2.08 U	NT	0.104 U	NT	1.11 U	NT	0.121 U	NT
2-Nitroaniline	~	~	NT	4.78 U	NT	0.239 U	NT	2.54 U	NT	0.277 U	NT
2-Nitrophenol	~	~	NT	1.49 U	NT	0.0747 U	NT	0.793 U	NT	0.0863 U	NT
3,3'-Dichlorobenzidine	~	~	NT	2.87 U	NT	0.144 U	NT	1.53 U	NT	0.166 U	NT
3- & 4-Methylphenols	~	~	NT	2.38 U	NT	0.119 U	NT	1.27 U	NT	0.138 U	NT
3-Nitroaniline	~	~	NT	5.45 U	NT	0.273 U	NT	2.90 U	NT	0.315 U	NT
4,6-Dinitro-2-methylphenol	~	~	NT	6.91 U	NT	0.346 U	NT	3.67 U	NT	0.400 U	NT
4-Bromophenyl phenyl ether	~	~	NT	2.64 U	NT	0.132 U	NT	1.41 U	NT	0.153 U	NT
4-Chloro-3-methylphenol	~	~	NT	3.70 U	NT	0.185 U	NT	1.97 U	NT	0.214 U	NT
4-Chloroaniline	~	~	NT	1.43 U	NT	0.0714 U	NT	0.758 U	NT	0.0824 U	NT

Table 3b. Soil Analytical Data Summary - All Results  
Remedial Investigation Report  
Habitat for Humanity - New York City  
Mother Gaston Boulevard and Dean Street  
Brooklyn, New York  
Langan Project No. 170157901

Sample ID Laboratory ID Sampling Date and Time	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (mg/kg)	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential (mg/kg)	MW-02_11-12 13D0880-06 4/23/2013 3:00:00 PM	MW-03_0-2 13D0880-12 4/23/2013 3:00:00 PM	MW-03_1-2 13D0880-01 4/23/2013 3:00:00 PM	MW-03_10-12 13D0880-13 4/23/2013 3:00:00 PM	MW-03_11-12 13D0880-02 4/23/2013 3:00:00 PM	MW-07_0-2 13D0880-22 4/24/2013 3:00:00 PM	MW-07_1-2 13D0880-10 4/24/2013 3:00:00 PM	MW-07_10-12 13D0880-23 4/24/2013 3:00:00 PM	MW-07_11-12 13D0880-11 4/24/2013 3:00:00 PM
<b>Compound</b>											
4-Chlorophenyl phenyl ether	~	~	NT	3.21 U	NT	0.161 U	NT	1.71 U	NT	0.186 U	NT
4-Nitroaniline	~	~	NT	2.27 U	NT	0.114 U	NT	1.21 U	NT	0.131 U	NT
4-Nitrophenol	~	~	NT	2.06 U	NT	0.103 U	NT	1.10 U	NT	0.119 U	NT
Acenaphthene	20	100	NT	1.98 U	NT	0.0994 U	NT	1.06 U	NT	0.115 U	NT
Acenaphthylene	100	100	NT	2.63 U	NT	0.132 U	NT	1.40 U	NT	0.152 U	NT
Anthracene	100	100	NT	2.99 U	NT	0.150 U	NT	1.59 U	NT	0.173 U	NT
Benzo(a)anthracene	1	1	NT	15.6 D	D	0.575 U	NT	1.82 J,D	J,D	0.119 U	NT
Benzo(a)pyrene	1	1	NT	21.6 D	D	0.744 U	NT	2.52 J,D	J,D	0.126 U	NT
Benzo(b)fluoranthene	1	1	NT	21.9 D	D	0.899 U	NT	2.44 U	NT	0.266 U	NT
Benzo(b,h)perylene	100	100	NT	4.80 J,D	J,D	0.0912 U	NT	1.57 J,D	J,D	0.105 U	NT
Benzo(k)fluoranthene	0.8	3.9	NT	16.0 D	D	0.499 U	NT	2.92 U	NT	0.317 U	NT
Benzoic acid	~	~	NT	3.75 U	NT	0.188 U	NT	1.99 U	NT	0.217 U	NT
Benzyl alcohol	~	~	NT	5.48 U	NT	0.275 U	NT	2.92 U	NT	0.317 U	NT
Benzyl butyl phthalate	~	~	NT	3.03 U	NT	0.152 U	NT	1.61 U	NT	0.175 U	NT
Bis(2-chloroethoxy)methane	~	~	NT	1.89 U	NT	0.0944 U	NT	1.00 U	NT	0.109 U	NT
Bis(2-chloroethyl)ether	~	~	NT	2.80 U	NT	0.140 U	NT	1.49 U	NT	0.162 U	NT
Bis(2-chloroisopropyl)ether	~	~	NT	1.93 U	NT	0.0966 U	NT	1.03 U	NT	0.112 U	NT
Bis(2-ethylhexyl)phthalate	~	~	NT	3.78 U	NT	0.189 U	NT	2.01 U	NT	0.219 U	NT
Chrysene	1	3.9	NT	19.7 D	D	0.705 U	NT	2.50 J,D	J,D	0.146 U	NT
Di-n-butyl phthalate	~	~	NT	2.23 U	NT	0.111 U	NT	1.18 U	NT	0.129 U	NT
Di-n-octyl phthalate	~	~	NT	5.48 U	NT	0.275 U	NT	2.92 U	NT	0.317 U	NT
Dibenz(a,h)anthracene	0.33	0.33	NT	2.20 U	NT	0.110 U	NT	1.17 U	NT	0.127 U	NT
Dibenzofuran	7	59	NT	2.55 U	NT	0.128 U	NT	1.36 U	NT	0.148 U	NT
Diethyl phthalate	~	~	NT	3.44 U	NT	0.172 U	NT	1.83 U	NT	0.199 U	NT
Dimethyl phthalate	~	~	NT	2.45 U	NT	0.122 U	NT	1.30 U	NT	0.141 U	NT
Fluoranthene	100	100	NT	29.3 D	D	1.13 U	NT	5.03 D	D	0.186 U	NT
Fluorene	30	100	NT	2.63 U	NT	0.132 U	NT	1.40 U	NT	0.152 U	NT
Hexachlorobenzene	0.33	1.2	NT	3.23 U	NT	0.162 U	NT	1.72 U	NT	0.187 U	NT
Hexachlorobutadiene	~	~	NT	1.85 U	NT	0.0928 U	NT	0.985 U	NT	0.107 U	NT
Hexachlorocyclopentadiene	~	~	NT	4.08 U	NT	0.204 U	NT	2.17 U	NT	0.236 U	NT
Hexachloroethane	~	~	NT	1.57 U	NT	0.0785 U	NT	0.834 U	NT	0.0907 U	NT
Indeno(1,2,3-cd)pyrene	0.5	0.5	NT	4.80 J,D	J,D	0.125 U	NT	3.40 J,D	J,D	0.145 U	NT
Isothorone	~	~	NT	1.89 U	NT	0.0944 U	NT	1.00 U	NT	0.109 U	NT
N-nitroso-di-n-propylamine	~	~	NT	1.83 U	NT	0.0917 U	NT	0.974 U	NT	0.106 U	NT
N-Nitrosodiphenylamine	~	~	NT	2.48 U	NT	0.124 U	NT	1.32 U	NT	0.143 U	NT
Naphthalene	12	100	NT	1.35 U	NT	0.0785 U	NT	0.717 U	NT	0.0780 U	NT
Nitrobenzene	~	~	NT	1.61 U	NT	0.0807 U	NT	0.857 U	NT	0.0932 U	NT
Pentachlorophenol	0.8	6.7	NT	4.13 U	NT	0.207 U	NT	2.20 U	NT	0.239 U	NT
Phenanthrene	100	100	NT	16.0 D	D	1.00 U	NT	4.47 D	D	0.166 U	NT
Phenol	0.33	100	NT	2.37 U	NT	0.119 U	NT	1.26 U	NT	0.137 U	NT
Pyrene	100	100	NT	40.1 D	D	1.64 U	NT	5.01 D	D	0.143 U	NT
<b>Pesticides (mg/kg)</b>											
4,4'-DDD	0.0033	13	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
4,4'-DDE	0.0033	8.9	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
4,4'-DDT	0.0033	7.9	NT	0.00625 D	D	0.00272 U	U	0.00604 D	D	0.00314 U	U
Aldrin	0.005	0.097	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Alpha-BHC	0.02	0.48	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Chlordane, total	~	~	NT	0.0109 U	U	0.0109 U	U	0.0115 U	U	0.0126 U	U
Dieldrin	0.005	0.2	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Heptachlor	0.042	2.1	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
beta-BHC	0.036	0.36	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
delta-BHC	0.04	100	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Endosulfan I	2.4	24	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Endosulfan II	2.4	24	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Endosulfan sulfate	2.4	24	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Endrin	0.014	11	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Endrin aldehyde	~	~	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Endrin ketone	~	~	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
gamma-BHC (Lindane)	0.1	1.3	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Heptachlor epoxide	~	~	NT	0.00271 U	U	0.00272 U	U	0.00289 U	U	0.00314 U	U
Methoxychlor	~	~	NT	0.0136 U	U	0.0136 U	U	0.0144 U	U	0.0157 U	U
Toxaphene	~	~	NT	0.137 U	U	0.138 U	U	0.146 U	U	0.159 U	U
<b>Polychlorinated Biphenyls (PCB) (mg/kg)</b>											
Aroclor 1016	~	~	NT	0.280 U	U	0.280 U	U	0.297 U	U	0.323 U	U
Aroclor 1221	~	~	NT	0.280 U	U	0.280 U	U	0.297 U	U	0.323 U	U
Aroclor 1232	~	~	NT	0.280 U	U	0.280 U	U	0.297 U	U	0.323 U	U
Aroclor 1242	~	~	NT	0.280 U	U	0.280 U	U	0.297 U	U	0.323 U	U
Aroclor 1248	~	~	NT	0.280 U	U	0.280 U	U	0.297 U	U	0.323 U	U
Aroclor 1254	~	~	NT	0.280 U	U	0.280 U	U	0.297 U	U	0.323 U	U
Aroclor 1260	~	~	NT	0.280 U	U	0.280 U	U	0.297 U	U	0.323 U	U
Total PCBs	0.1	1	NT	ND	NT	ND	NT	ND	NT	ND	NT
<b>Total Metals (mg/kg)</b>											
Aluminum	~	~	NT	10500	NT	9220	NT	10800	NT	16000	NT
Antimony	~	~	NT	0.241 U	U	0.242 U	U	0.257 U	U	0.279 U	U
Arsenic	13	16	NT	5.03 U	U	4.53 U	U	7.05 U	U	5.71 U	U
Barium	350	400	NT	209	NT	103	NT	442	NT	52.6	NT
Beryllium	7.2	72	NT	0.110 U	U	0.110 U	U	0.117 U	U	0.127 U	U
Cadmium	2.5	4.3	NT	0.110 U	U	0.110 U	U	0.117 U	U	0.127 U	U
Calcium	~	~	NT	2910	NT	1330	NT	8630	NT	3210	NT
Chromium	~	~	NT	14.6	NT	24.8	NT	18.1	NT	30.3	NT
Cobalt	~	~	NT	4.77	NT	8.43	NT	4.98	NT	7.82	NT
Copper	50	270	NT	24.4	NT	26.4	NT	48.1	NT	24.0	NT
Iron	~	~	NT	14100	NT	32900	NT	14500	NT	27900	NT
Lead	63	400	NT	352	NT	47.9	E	492	NT	25.7	E
Magnesium	~	~	NT	1740	NT	2860	NT	1850	NT	2950	NT
Manganese	1600	2000	NT	308	NT	462	NT	223	NT	189	NT
Mercury	0.18	0.81	NT	0.103 U	U	0.103 U	U	0.110 U	U	0.119 U	U
Nickel	30	310	NT	10.7	NT	14.1	NT	12.3	NT	15.2	NT
Potassium	~	~	NT	749	NT	2440	NT	680	NT	1240	NT
Selenium	3.9	180	NT	1.93	NT	2.09	NT	1.96	NT	1.83	NT
Silver	2	180	NT	0.110 U	U	0.110 U	U	0.117 U	U	0.127 U	U
Sodium	~	~	NT	196	NT	198	NT	150	NT	160	NT
Thallium	~	~	NT	0.351 U	U	0.351 U	U	0.373 U	U	0.406 U	U
Vanadium	~	~	NT	20.7	NT	42.0	NT	20.2	NT	41.4	NT
Zinc	109	10000	NT	369	NT	61.6	NT	390	NT	79.7	NT
<b>Total Solids</b>	~	~	88.9	91.2	91.2	91.1	91.1	85.7	85.7	78.8	78.8

**Notes:**  
Soil sample analytical results are compared to the New York State Department of Environmental Conservation's official compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use Restricted-Residential Soil Cleanup Objectives (SCO), tables 6.8(a) and 6.8(b).

ND indicates the analyte was not detected  
NT = Not Target Analyte Tested  
--this indicates that no SCO has been established for this analyte  
D=result from an analysis that required a dilution  
E=result is estimated and cannot be accurately reported due to levels encountered or interferences  
U=Analyte not detected at or above the reporting limit  
J=detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.

Detections exceeding referenced soil standards are highlighted  
Detections exceeding NYSDEC Part 375-6.8(a) Unrestricted Use SCO are shown in **BOLD**.  
Detections exceeding NYSDEC Part 375-6.8(b) Restricted Use Restricted Residential SCO exceedance mg/kg = milligrams per kilogram

Table 4 Groundwater Analytical Data Summary

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**Table 4b. Groundwater Analytical Data Summary - All Results**  
**Remedial Investigation Report**  
**Habitat for Humanity - New York City**  
**Mother Gaston Boulevard and Dean Street**  
**Brooklyn, New York**  
**Langan Project No. 170157901**

Sample ID Laboratory ID Sampling Date and Time Compound	NYSDEC TOGS Standards and Guidance Values - GA (µg/L)	MW-03-GW 13D0922-01 4/25/2013 2:45:00 PM (µg/L)	MW-03_GW 13E0240-01 4/25/2013 2:45:00 PM (µg/L)
<b>Volatile Organic Compounds (VOCs) (µg/L)</b>			
1,1,1-Trichloroethane	5	0.23 U	NT
1,1,2,2-Tetrachloroethane	5	0.59 U	NT
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	0.34 U	NT
1,1,2-Trichloroethane	1	1.3 U	NT
1,1-Dichloroethane	5	0.42 U	NT
1,1-Dichloroethylene	5	0.52 U	NT
1,2,4-Trichlorobenzene	5	0.91 U	NT
1,2,4-Trimethylbenzene	5	0.41 U	NT
1,2-Dibromo-3-chloropropane	0.04	0.98 U	NT
1,2-Dibromoethane	5	0.44 U	NT
1,2-Dichloroethane	0.6	0.36 U	NT
1,2-Dichloropropane	1	0.23 U	NT
1,3,5-Trimethylbenzene	5	0.48 U	NT
2-Butanone	50	1.5 U	NT
2-Hexanone	50	1.1 U	NT
4-Methyl-2-pentanone	~	0.86 U	NT
Acetone	50	6.1 U	NT
Benzene	1	0.30 U	NT
Bromodichloromethane	50	0.41 U	NT
Bromoform	50	0.58 U	NT
Bromomethane	5	2.0 U	NT
Carbon disulfide	~	0.51 U	NT
Carbon tetrachloride	5	0.56 U	NT
Chlorobenzene	5	0.38 U	NT
Chloroethane	5	2.8 U	NT
Chloroform	7	1.5 J	NT
Chloromethane	5	0.41 U	NT
cis-1,2-Dichloroethylene	5	0.43 U	NT
cis-1,3-Dichloropropylene	0.4	0.41 U	NT
Dibromochloromethane	50	0.39 U	NT
Dichlorodifluoromethane	5	0.35 U	NT
Ethyl Benzene	5	0.25 U	NT
Isopropylbenzene	5	0.63 U	NT
Methyl tert-butyl ether (MTBE)	10	0.53 U	NT
Methylene chloride	5	2.4 U	NT
n-Butylbenzene	5	0.30 U	NT
n-Propylbenzene	5	0.54 U	NT
Naphthalene	10	1.2 U	NT

**Table 4b. Groundwater Analytical Data Summary - All Results**  
**Remedial Investigation Report**  
**Habitat for Humanity - New York City**  
**Mother Gaston Boulevard and Dean Street**  
**Brooklyn, New York**  
**Langan Project No. 170157901**

Sample ID Laboratory ID Sampling Date and Time	NYSDEC TOGS Standards and Guidance Values - GA (µg/L)	MW-03-GW 13D0922-01 4/25/2013 2:45:00 PM (µg/L)	MW-03_GW 13E0240-01 4/25/2013 2:45:00 PM (µg/L)
<b>Compound</b>			
<b>Volatile Organic Compounds (VOCs) (µg/L)</b>			
o-Xylene	5	0.21 U	NT
p- & m- Xylenes	5	0.53 U	NT
sec-Butylbenzene	5	0.59 U	NT
Styrene	5	0.22 U	NT
tert-Butylbenzene	5	1.4 U	NT
Tetrachloroethylene	5	<b>13</b>	NT
Toluene	5	0.17 U	NT
trans-1,2-Dichloroethylene	5	0.52 U	NT
trans-1,3-Dichloropropylene	0.4	0.67 U	NT
Trichloroethylene	5	0.16 U	NT
Trichlorofluoromethane	5	0.54 U	NT
Vinyl Chloride	2	0.68 U	NT
Xylenes, Total	5	0.55 U	NT
<b>Semi-Volatile Organic Compounds (SVOCs) (µg/L)</b>			
1,2,4-Trichlorobenzene	5	1.38 U	NT
1,2-Dic+H620+E3hlorobenzene	3	1.72 U	NT
1,3-Dichlorobenzene	3	2.89 U	NT
1,4-Dichlorobenzene	3	3.40 U	NT
2,4,5-Trichlorophenol	1	3.80 U	NT
2,4,6-Trichlorophenol	1	3.44 U	NT
2,4-Dichlorophenol	5	3.25 U	NT
2,4-Dimethylphenol	50	3.88 U	NT
2,4-Dinitrophenol	10	10.1 U	NT
2,4-Dinitrotoluene	5	2.49 U	NT
2,6-Dinitrotoluene	5	3.69 U	NT
2-Chloronaphthalene	10	3.67 U	NT
2-Chlorophenol	1	3.60 U	NT
2-Methylnaphthalene	~	3.24 U	NT
2-Methylphenol	1	0.902 U	NT
2-Nitroaniline	5	3.17 U	NT
2-Nitrophenol	1	3.27 U	NT
3,3'-Dichlorobenzidine	5	3.70 U	NT
3- & 4-Methylphenols	~	3.91 U	NT
3-Nitroaniline	5	1.68 U	NT
4,6-Dinitro-2-methylphenol	~	7.05 U	NT
4-Bromophenyl phenyl ether	~	3.63 U	NT

**Table 4b. Groundwater Analytical Data Summary - All Results**  
**Remedial Investigation Report**  
**Habitat for Humanity - New York City**  
**Mother Gaston Boulevard and Dean Street**  
**Brooklyn, New York**  
**Langan Project No. 170157901**

Sample ID Laboratory ID Sampling Date and Time	NYSDEC TOGS Standards and Guidance Values - GA (µg/L)	MW-03-GW 13D0922-01 4/25/2013 2:45:00 PM (µg/L)	MW-03_GW 13E0240-01 4/25/2013 2:45:00 PM (µg/L)
<b>Compound</b>			
<b>Volatile Organic Compounds (VOCs) (µg/L)</b>			
4-Chloro-3-methylphenol	1	3.82 U	NT
4-Chloroaniline	5	3.94 U	NT
4-Chlorophenyl phenyl ether	~	3.28 U	NT
4-Nitroaniline	5	3.97 U	NT
Acenaphthene	20	0.0341 U	NT
Acenaphthylene	~	0.0451 U	NT
Anthracene	50	0.0484 U	NT
Benzo(a)anthracene	0.002	0.0428 U	NT
Benzo(a)pyrene	0.002	0.0511 U	NT
Benzo(b)fluoranthene	0.002	0.0434 U	NT
Benzo(g,h,i)perylene	~	0.0437 U	NT
Benzo(k)fluoranthene	0.002	0.0364 U	NT
Benzoic acid	~	9.16 U	NT
Benzyl alcohol	~	4.21 U	NT
Benzyl butyl phthalate	50	2.42 U	NT
Bis(2-chloroethoxy)methane	5	5.10 U	NT
Bis(2-chloroethyl)ether	1	4.34 U	NT
Bis(2-chloroisopropyl)ether	5	4.37 U	NT
Bis(2-ethylhexyl)phthalate	5	<b>12.9</b>	NT
Chrysene	0.002	0.0437 U	NT
Di-n-butyl phthalate	50	4.34 U	NT
Di-n-octyl phthalate	50	4.37 U	NT
Dibenzo(a,h)anthracene	~	0.0326 U	NT
Dibenzofuran	~	3.05 U	NT
Diethyl phthalate	50	2.32 U	NT
Dimethyl phthalate	50	5.10 U	NT
Fluoranthene	50	0.0167 U	NT
Fluorene	50	0.0340 U	NT
Hexachlorobenzene	0.04	3.11 U	NT
Hexachlorobutadiene	0.5	3.48 U	NT
Hexachlorocyclopentadiene	5	3.63 U	NT
Hexachloroethane	5	3.82 U	NT
Indeno(1,2,3-cd)pyrene	0.002	0.0289 U	NT
Isophorone	50	3.40 U	NT
N-nitroso-di-n-propylamine	~	2.71 U	NT
N-Nitrosodiphenylamine	50	3.81 U	NT
Naphthalene	10	4.07 U	NT
Nitrobenzene	0.4	2.07 U	NT

**Table 4b. Groundwater Analytical Data Summary - All Results**  
**Remedial Investigation Report**  
**Habitat for Humanity - New York City**  
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**Langan Project No. 170157901**

Sample ID Laboratory ID Sampling Date and Time	NYSDEC TOGS Standards and Guidance Values - GA (µg/L)	MW-03-GW 13D0922-01 4/25/2013 2:45:00 PM (µg/L)	MW-03_GW 13E0240-01 4/25/2013 2:45:00 PM (µg/L)
<b>Compound</b>			
<b>Volatile Organic Compounds (VOCs) (µg/L)</b>			
Pentachlorophenol	1	3.96 U	NT
Phenanthrene	50	0.0381 U	NT
Phenol	1	3.44 U	NT
Pyrene	50	0.0253 U	NT
<b>Pesticides and Polychlorinated Biphenyls (PCBs) (µg/L)</b>			
4,4'-DDD	~	0.00957	NT
4,4'-DDE	~	0.00118 U	NT
4,4'-DDT	~	0.00118 U	NT
Aldrin	~	0.00118 U	NT
alpha-BHC	~	0.00118 U	NT
Aroclor 1016	~	0.0427 U	NT
Aroclor 1221	~	0.0427 U	NT
Aroclor 1232	~	0.0427 U	NT
Aroclor 1242	~	0.0427 U	NT
Aroclor 1248	~	0.0427 U	NT
Aroclor 1254	~	0.0496 U	NT
Aroclor 1260	~	0.0496 U	NT
beta-BHC	~	0.00118 U	NT
Chlordane, total	~	0.00471 U	NT
delta-BHC	~	0.00118 U	NT
Dieldrin	~	0.00118 U	NT
Endosulfan I	~	0.00118 U	NT
Endosulfan II	~	0.00118 U	NT
Endosulfan sulfate	~	0.00118 U	NT
Endrin	~	0.00118 U	NT
Endrin aldehyde	~	0.00118 U	NT
Endrin ketone	~	0.00118 U	NT
gamma-BHC (Lindane)	~	0.00118 U	NT
Heptachlor	~	0.00118 U	NT
Heptachlor epoxide	~	0.00118 U	NT
Methoxychlor	~	0.00588 U	NT
Toxaphene	~	0.0588 U	NT
Total PCBs	~	ND	NT
<b>Metals, Target Analyte, Total (µg/L)</b>			
Aluminum	~	10	NT

**Table 4b. Groundwater Analytical Data Summary - All Results**  
**Remedial Investigation Report**  
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**Brooklyn, New York**  
**Langan Project No. 170157901**

Sample ID Laboratory ID Sampling Date and Time	NYSDEC TOGS Standards and Guidance Values - GA (µg/L)	MW-03-GW 13D0922-01 4/25/2013 2:45:00 PM (µg/L)	MW-03_GW 13E0240-01 4/25/2013 2:45:00 PM (µg/L)
<b>Compound</b>			
<b>Volatile Organic Compounds (VOCs) (µg/L)</b>			
Antimony	3	3	NT
Arsenic	25	4	NT
Barium	1000	53	NT
Beryllium	~	1	NT
Cadmium	5	2	NT
Calcium	~	64400	NT
Chromium	50	2	NT
Cobalt	~	2	NT
Copper	200	2	NT
Iron	~	40	NT
Lead	25	2	NT
Magnesium	35000	18200	NT
Manganese	300	466	NT
Mercury	0.7	0.04	U
Nickel	100	7	NT
Potassium	~	4030	NT
Selenium	10	7	NT
Silver	50	2	NT
Sodium	~	74300	NT
Thallium	~	3	NT
Vanadium	~	2	NT
Zinc	~	21	NT
<b>Metals, Target Analyte, Dissolved (µg/L)</b>			
Aluminum	~	NT	10 U
Antimony	3	NT	3 U
Arsenic	25	NT	4 U
Barium	1000	NT	55
Beryllium	~	NT	1 U
Cadmium	5	NT	2 U
Calcium	~	NT	66600
Chromium	50	NT	2 U
Cobalt	~	NT	2 U
Copper	200	NT	2 U
Iron	~	NT	22
Lead	25	NT	2 U
Magnesium	35000	NT	19400
Manganese	300	NT	340
Mercury	0.7	NT	0.039 U
Nickel	100	NT	5

**Table 4b. Groundwater Analytical Data Summary - All Results**  
**Remedial Investigation Report**  
**Habitat for Humanity - New York City**  
**Mother Gaston Boulevard and Dean Street**  
**Brooklyn, New York**  
**Langan Project No. 170157901**

Sample ID Laboratory ID Sampling Date and Time Compound	NYSDEC TOGS Standards and Guidance Values - GA (µg/L)	MW-03-GW 13D0922-01 4/25/2013 2:45:00 PM (µg/L)	MW-03_GW 13E0240-01 4/25/2013 2:45:00 PM (µg/L)
<b>Volatile Organic Compounds (VOCs) (µg/L)</b>			
Potassium	~	NT	4270
Selenium	10	NT	7 U
Silver	50	NT	2 U
Sodium	~	NT	78700
Thallium	~	NT	3 U
Vanadium	~	NT	2 U
Zinc	~	NT	2 U

**Notes:**

Groundwater samples analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1 Class GA Ambient Water Quality Standards (AWQS) and Guidance Values (GV).

Only detected compounds are shown in table.

Concentrations exceeding TOGS GA Values are highlighted and **BOLD**

µg/L = micrograms per liter

**Qualifier:**

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

U=analyte not detected at or above the level indicated

~=this indicates that no AWQS/GV limit has been established for this analyte

NT=analyte not tested

Table 5 Soil Vapor Analytical Summary

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**Table 5b. Soil Vapor Analytical Data Summary - All Results**  
**Remedial Investigation Report**  
**Habitat for Humanity - New York City**  
**Mother Gaston Boulevard and Dean Street**  
**Brooklyn, New York**  
**Langan Project No. 170157901**

Client ID	NYSDOH AGV	2003 NYSDOH Fuel Oil Upper Fence Limit	USEPA 2001 BASE Data 90th Percentile Value	HEI RIOPA 2005 95th Percentile Value	ASTM 2600-08 VOC Data Median	SG-01_12 13D0888-01	SG-02_12 13D0888-02	SG-03_12 13D0888-03
Lab Sample ID		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	4/23/2013 3:00:00 PM	4/23/2013 3:00:00 PM	4/24/2013 12:00:00 PM
Date Sampled								
Compound								
VOCs ( $\mu\text{g}/\text{M3}$ )								
1,1,1-Trichloroethane	-	2.5	20.6	-	8.7	1.3 U	8.9 U	10 U
1,1,2,2-Tetrachloroethane	-	0.4	-	-	-	1.6 U	11 U	13 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	-	-	-	-	-	1.8 U	13 U	14 U
1,1,2-Trichloroethane	-	2.5	<1.5	-	-	1.3 U	8.9 U	10 U
1,1-Dichloroethane	-	0.4	<0.7	-	-	0.93 U	6.6 U	7.5 U
1,1-Dichloroethylene	-	<0.25	<1.4	-	-	0.91 D	6.5 U	7.3 U
1,2,4-Trichlorobenzene	-	0.5	<6.8	-	-	1.7 U	12 U	14 U
1,2,4-Trimethylbenzene	-	9.8	9.5	-	4.3	3.8 D	8.0 U	9.1 U
1,2-Dibromoethane	-	0.4	<1.5	-	-	1.8 U	13 U	14 U
1,2-Dichlorobenzene	-	0.5	<1.2	-	-	1.4 U	9.8 U	11 U
1,2-Dichloroethane	-	0.4	<0.9	-	-	0.93 U	6.6 U	7.5 U
1,2-Dichloropropane	-	0.4	<1.6	-	-	1.1 U	7.5 U	8.5 U
1,2-Dichlorotetrafluoroethane	-	-	-	-	-	1.6 U	11 U	13 U
1,3,5-Trimethylbenzene	-	3.9	3.7	-	1.9	1.2 D	8.0 U	9.1 U
1,3-Butadiene	-	-	<3.0	-	-	1.0 U	7.1 U	8.0 U
1,3-Dichlorobenzene	-	0.5	<2.4	-	-	1.4 U	9.8 U	11 U
1,4-Dichlorobenzene	-	1.2	5.5	-	-	1.4 U	9.8 U	11 U
1,4-Dioxane	-	-	-	-	-	0.83 U	5.9 U	6.6 U
2-Butanone	-	16	12	-	-	7.1 D	4.8 U	34 D
2-Hexanone	-	-	-	-	-	0.94 U	6.7 U	7.6 U
4-Methyl-2-pentanone	-	-	6	-	-	0.94 U	6.7 U	7.6 U
Acetone	-	115	98.9	45.8	-	310 D,E	57 D	1100 D
Benzene	-	13	9.4	10	3.2	7.6 D	8.9 D	5.9 U
Benzyl chloride	-	-	-	-	-	1.2 U	8.4 U	9.5 U
Bromodichloromethane	-	-	-	-	-	1.4 U	10 U	11 U
Bromoform	-	-	-	-	-	2.4 U	17 U	19 U
Bromomethane	-	-	<1.7	-	-	0.89 U	6.3 U	7.2 U
Carbon disulfide	-	-	4.2	-	-	45 D	210 D	5.7 U
Carbon tetrachloride	-	1.3	<1.3	1.1	-	0.72 U	5.1 U	5.8 U
Chlorobenzene	-	0.4	<0.9	-	-	17 D	7.5 U	24 D
Chloroethane	-	0.4	<1.1	-	-	0.61 U	4.3 U	4.9 U
Chloroform	-	1.2	1.1	6.34	-	1.1 U	8.0 U	9.0 U
Chloromethane	-	4.2	3.7	-	-	0.47 U	3.4 U	3.8 U
cis-1,2-Dichloroethylene	-	<0.25	<1.9	-	-	0.91 U	6.5 U	7.3 U
cis-1,3-Dichloropropylene	-	<0.25	<2.3	-	-	1.0 U	7.4 U	8.4 U
Cyclohexane	-	6.3	-	-	-	0.79 U	5.6 U	6.3 U
Dibromochloromethane	-	-	-	-	-	1.8 U	13 U	15 U
Dichlorodifluoromethane	-	10	16.5	-	-	1.8 D	8.1 U	9.1 U
Ethyl acetate	-	-	-	-	-	0.83 U	5.9 U	6.6 U
Ethyl Benzene	-	6.4	5.7	7.62	2.1	5.4 D	7.1 U	8.0 U
Hexachlorobutadiene	-	-	<6.8	-	-	2.5 U	17 U	20 U
Isopropanol	-	-	-	-	-	5.0 D	760 D	51 D
Methyl Methacrylate	-	-	-	-	-	0.94 U	6.7 U	7.5 U
Methyl tert-butyl ether (MTBE)	-	14	11.5	36	-	0.83 U	5.9 U	6.6 U
Methylene chloride	60	16	10	7.5	-	3.8 D	23 D	6.4 U
n-Heptane	-	18	-	-	1.6	6.6 D	6.7 U	7.6 U
n-Hexane	-	4.8	10.2	-	2.2	11 D	5.8 U	6.5 U
o-Xylene	-	7.1	7.9	7.24	2.9	6.5 D	7.1 U	8.0 U
p- & m- Xylenes	-	11	22.2	22.2	6.1	17 D	12 D	16 D
p-Ethyltoluene	-	-	-	-	-	5.6 U	40 U	45 U

**Table 5b. Soil Vapor Analytical Data Summary - All Results**  
**Remedial Investigation Report**  
**Habitat for Humanity - New York City**  
**Mother Gaston Boulevard and Dean Street**  
**Brooklyn, New York**  
**Langan Project No. 170157901**

Propylene	-	-	-	-	-	0.40	U	2.8	U	3.2	U
Styrene	-	1.4	1.9	5.13	-	0.98	U	6.9	U	7.9	U
Tetrachloroethylene	100	2.5	15.9	6.01	3.2	8.3	D	65	D	13	U
Tetrahydrofuran	-	0.8	-	-	-	0.68	U	4.8	U	5.4	U
Toluene	-	57	43	39.8	7.9	15	D	21	D	12	D
trans-1,2-Dichloroethylene	-	-	-	-	-	0.91	U	6.5	U	7.3	U
trans-1,3-Dichloropropylene	-	-	-	-	-	1.0	U	7.4	U	8.4	U
Trichloroethylene	5	0.5	4.2	1.36	9.7	1.7	D	<b>7.9</b>	D	5.0	U
Trichlorofluoromethane (Freon 11)	-	12	18.1	-	-	2.5	D	9.2	U	10	U

**NOTES:**

Sample results were compared to the New York State Department of Health (NYSDOH) Air Guideline Values (AGV), NYSDOH 2003 Fuel Oil Indoor Air Upper Fence Values, U.S. Environmental Protection Agency (USEPA) 2001 BASE Database 90th Percentile Indoor Air, Health Effects Institute (HEI) 2005 95th Percentile Indoor Air, and ASTM E 2600-08 Table X7-selected summary VOC Data from recent U.S. Studies-median Data from office Buildings.

Concentrations exceeding all of the referenced standards are highlighted.

Concentrations above NYSDOH AGVs are **bold**.

Concentrations where analytes are below the method reporting limit, but method reporting limit is above background standard are *italicized*.

µg/m<sup>3</sup> = micrograms per cubic meter.

- = no applicable criteria is referenced.

**Qualifiers:**

U - Analyte included in the analysis, but not detected.

D - The result is from an analysis that required a dilution.

E - The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate

## APPENDICES

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Appendix A New York City Housing Preservation and Development Negative Declaration

October 28, 2010

## **NEGATIVE DECLARATION**

### **Project Identification**

Location: 201 – 205 Mother Gaston Boulevard (Block 1450, Lots 8-10)  
2396 and 2400 Dean Street (Block 1450, Lots 11 and 14)  
CEQR: 09HPD032K  
ULURP No: Pending  
SEQRA Classification: Unlisted

### **Name and Description of Proposed Action**

#### **Mother Gaston Boulevard Residences:**

The proposal involves an application by the City of New York-Department of Housing Preservation & Development (HPD), on behalf of the project sponsor, Habitat for Humanity New York City, Incorporated, for the disposition of City-owned properties and project approval and designation of two project sites as Urban Development Action Area Projects (UDAAP).

The proposed action would facilitate a proposal by the project sponsor to construct four multi-family residential buildings on two sites in the Ocean Hill/Brownsville neighborhood of Brooklyn, Community District 16. The proposed action would facilitate the development of affordable housing.

This proposed project would result in the redevelopment of two sites containing a total of 14 dwelling units. Both project sites are located within R6 zoning districts and would be developed as-of-right under existing zoning. By the 2012 build year, absent the proposed action, existing conditions on the two sites are expected to remain. A description of each site is provided below:

- Site A (Block 1450, Lots 8 – 11)  
The site is currently vacant and would be redeveloped with three residential buildings (Building A, B and C) containing a total of 12 DUs. The buildings would be four stories in height. The site is located at the intersection of Dean Street and Mother Gaston Boulevard.
- Site B (Block 1450, Lot 14)  
The site is currently vacant and would be redeveloped with one residential building. The building would contain two dwelling units and would be approximately 4 stories in height.



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The proposed project will be implemented in conformance with the following provisions to be incorporated into the Land Disposition Agreement (LDA) in order to ensure that there is no significant noise or hazardous materials impact. The provision is as follows:

Noise

Based on a noise study conducted by Philip Habib and Associates, the buildings on Project Site A (201, 203, 205 Mother Gaston Boulevard and 2396 Dean Street, aka Block 1450, Lots 8-11) require window-wall attenuation with an OITC value of 28 dBA, including an alternate means of ventilation. The window-wall attenuation requirement is for the Dean Street, Mother Gaston Boulevard and southern facade of the building(s). The eastern façade requires no attenuation (neither does the building on Site B on Lot 14). Both window-wall attenuation measures and alternate methods of ventilation will be required through provisions contained in the LDA between HPD and the project sponsor. With these measures in place, an interior noise environment of 45 dBA (closed-window condition) will be achieved. Alternate means of ventilation include, but are not limited to: (a) provision of central air conditioning; or (b) provision of air conditioner sleeves containing air conditioners.

Hazardous Materials

A Phase I Environmental Site Assessment (ESA) was conducted for Project Sites A and B (Block 1450, Lots 8, 9, 10, 11 and 14) by Soil Mechanics Environmental Services in October 2007. According to the Phase I ESA, onsite or adjacent historical uses include a dress factory and clothing manufacturer, "Carroll Roofing Sheet Metal Works," Stone Refrigeration & Compressor Supply and an auto parts manufacturer. Due to historic uses identified on Lots 8, 9, 10, 11 and 14, a subsurface investigation, including soil characterization and groundwater sampling would be required.

The New York State Department of Environmental Conservation (NYSDEC) may have jurisdiction over some or all activities. If it is determined that the NYSDEC has jurisdiction, the developer/sponsor is responsible to ensure a review of such plans is coordinated with the NYSDEC. If applicable, the developer shall be responsible to provide copies of all correspondence with the State to HPD/DEP as it becomes available. If required, the developer shall provide any and all plans and reports generated in association with the requisite work to DEC. If applicable, the developer is responsible to ensure that a no further action determination is consistent with NYSDEC requirements.

The developer/project sponsor must submit to HPD's Environmental Planning Unit, a Phase II Sampling and Analysis work plan/Protocol designed to identify and, if present,



delineate the nature and extent of potential soil and groundwater contamination at the site. A site specific Investigation Health and Safety Plan should be submitted. Upon completion of its review, HPD will transmit the documents to the New York City Department of Environmental Protection (DEP) for approval. The plan may include, at the agencies discretion, descriptions of a geophysical survey, excavation of test pits, installation of soil borings/monitoring wells, and collection of soil and groundwater samples, including a description of the methods to be used, a site map showing clearly and precisely all testing locations. If any underground tanks are found on site, a protocol for tank removal and soil and groundwater testing must be prepared and submitted to HPD and DEP for approval.

The developer/project sponsor would be responsible for providing a written report with findings and conclusions, and a summary of the testing program and laboratory results to HPD. The report should clearly indicate if remediation is required and its extent. Upon completion of this review and if the document is acceptable to HPD, HPD will transmit to the DEP for approval. If DEP determines that no further soil or groundwater testing or remediation is necessary, written notice shall be given by DEP that the site may be developed as proposed.

The developer/project sponsor is responsible to perform any and all remediation and construction activities in accordance with the remediation plan and construction health and safety plan, as approved by DEP. After completion of remediation, if required, the developer/project sponsor shall provide a Site Closure report in accordance with DEP requirements to serve as proof that remediation is complete. If DEP accepts the closure report, DEP will notify HPD and the developer that the proposed remediation work has been satisfactorily completed and that the site is suitable for re-use/occupancy.

**Statement of No Significant Effect:**

Pursuant to the CEQR rules adopted on June 6, 1991, Executive Order 91, HPD has completed its technical review of the Environmental Assessment Statement (EAS) dated October 28, 2010, and has determined that the proposed action will have no significant effect on the quality of the environment.

**Supporting statement:**

The proposed action includes the above-described measures associated with hazardous materials. With these measures included as part of the proposal, the proposed action would not result in any significant adverse impacts. If the provisions described above are not fully implemented as part of the proposed action, then the Negative Declaration shall become null and void. In such event, a Draft Environmental Impact Statement (EIS) will be prepared before proceeding further with said proposal.



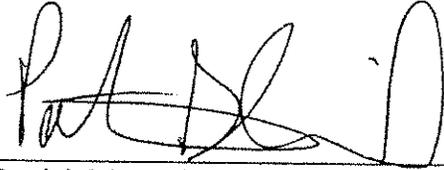
*Mother Gaston Boulevard Residences/Habitat for Humanity*

*Negative Declaration - CEQR No. 09HPD032K*

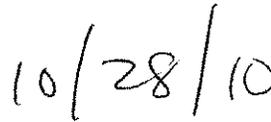
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The EAS is on file with HPD and available for public review. This Negative Declaration has been prepared in accordance with Article 8 of the Environmental Conservation Law 6NYCRR Part 617.



Patrick Blanchfield, AICP  
Director of Environmental Planning



Date

**NYC**



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Appendix B Phase I Environmental Site Assessment

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# ENVIRONMENTAL SITE ASSESSMENT

PROPERTY LOCATED AT:

MOTHER GASTON BLVD. & DEAN ST.  
BROOKLYN, NEW YORK

06-497



PREPARED FOR:

HABITAT FOR HUMANITY - NEW YORK CITY  
334 FURMAN STREET  
BROOKLYN, NEW YORK 11201

OCTOBER 2007

PREPARED BY:

SOIL MECHANICS ENVIRONMENTAL SERVICES  
3770 MERRICK ROAD  
SEAFORD, NY 11783  
(516) 221-7500 FAX (516) 679-1900

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## **1.0 ABSTRACT**

The subject property, located at 201, 203, & 205 Mother Gaston Boulevard (F/K/A Stone Avenue) and 2388, 2396, & 2400 Dean Street (Block: 1450 and Lots: 8, 9, 10, 11, & 14), in Brooklyn, N.Y., currently consists of vacant land.

Review of historical Sanborn maps, dated 1888, 1908, 1932, 1951, 1963, 1965, 1978-1980, 1982, 1987-1989, and 1991-1995, indicated that the target property consisted of several former buildings used for residential purposes in 1888. Since the early 1900's, pre-existing site buildings were utilized for residential, retail, manufacturing, commercial, and garage purposes. In 1951, 1963, and 1965, the 1<sup>st</sup> floor of the buildings located at 201 & 203 Mother Gaston Boulevard were utilized for clothing manufacturing. Further, a Certificate of Occupancy, dated Jan. 1953, indicated the use of a building located at 201/203 Stone Avenue for four (4) families, a dress factory, and a two (2) car garage. Information gathered from the review of City Directory Abstract (CDA) revealed that a former building located at 201 Mother Gaston Boulevard (F/K/A Stone Avenue) was occupied by "Carroll Roofing Sheet Metal Wks" in 1928 and "Stone Refrigeration & Compressor Supply" during the 1970's and 1980's and a former building located at 2400 Dean Street was occupied by "Metro Cooling Systems" in 1960. The remaining names listed in the CDA appear to have occupied the former site buildings as living quarters.

A Phase I Environmental Site Assessment completed at the subject property has revealed no evidence of recognized environmental conditions (RECs) in connection with the site with the exception of the following:

- Historical uses/occupants of former site buildings as a dress factory and clothing manufacturing and/or "Carroll Roofing Sheet Metal Wks", "Stone Refrigeration & Compressor Supply", and "Metro Cooling Systems".
- The likely presence of fill material throughout the subject property used to fill former building areas.

## **2.0 INTRODUCTION**

### **2.1 Purpose**

The purpose of this Phase I Environmental Site Assessment (ESA) was to identify, to the extent feasible, recognized environmental conditions (RECs) associated with the subject property. The term recognized environmental condition means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water on the property. The Phase I ESA was completed in conformance with current American Society for Testing and Materials Standards (ASTM) E 1527 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and United States Environmental Protection Agency (USEPA) "all appropriate inquiry" standards and practices.

### **2.2 Detailed Scope of Services**

Soil Mechanics Environmental Services (SMES) was retained by Mr. Paul Thibault of Habitat for Humanity - New York City to perform a Phase I ESA at the subject property (see Section 3.1 for property location and legal description).

### **2.3 Significant Assumptions**

SMES assumes that the information collected during the course of the Phase I ESA process is accurate, complete, and reliable. The information collected was utilized by SMES personnel in making their conclusions, opinions, and recommendations (if provided). Any information not represented in this report, which was otherwise not available to SMES, is therefore not considered in the opinions, conclusions, and recommendations (if provided).

## **2.4 Limitations and Exceptions**

The Phase I ESA was limited to historical research and site reconnaissance to evaluate the existence of any recognized environmental conditions (RECs). Consistent with generally accepted protocols, the Phase I ESA did not include sampling or analysis of suspect materials which may have been observed at the subject property.

## **2.5 Special Terms and Conditions**

No special terms or conditions were requested as part of this Phase I ESA.

## **2.6 User Reliance**

This Phase I ESA report was prepared for Habitat for Humanity - New York City. Reliance on this document is solely provided to this client and its agents. Third party reliance is not authorized. No third party shall have the right to rely on SMES's opinions rendered in connection with SMES's services or this report. Any third party usage is at your own risk. SMES assumes no responsibility or liability.

## **3.0 SITE DESCRIPTION**

### **3.1 Location and Legal Description**

Address: 201, 203, & 205 Mother Gaston Boulevard (F/K/A Stone Avenue) and 2388, 2396, & 2400 Dean Street, Brooklyn, State of N.Y.

Borough/County: Borough of Brooklyn, County of Kings.

Current Tax Lot: Block: 1450 and Lots: 8, 9, 10, 11, & 14.

Area: Lot 8: 20.08' x 63.83'; Lot 9: 18.75' x 74.39' (irregular); Lot 10: 18.25' x 49.75' (irregular); Lot 11: 71.58' x 106.58' (irregular); Lot 14: 19.00' x 107.17'.

Please refer to Site/Vicinity Map in Appendix.

### **3.2 Site and Vicinity General Characteristics**

The subject site presently consists of vacant land. The general area of the target property is predominately used for retail and residential purposes. A building located northeast of the target property is presently occupied by a bus service company.

### **3.3 Current Use of Property**

The subject property is currently not occupied.

### **3.4 Description of Structures, Roads, and Other Improvements**

The subject property, located at the southeast corner of Mother Gaston Boulevard and Dean Street, currently consists of vacant land comprised of exposed surface soils, secondary vegetation, and deciduous trees. Small quantities of common household trash were observed throughout the property. Chain-link fencing bordered the northern and western portions of the site (see Site Plan and Site Photographs in Appendix).

### **3.5 Current Uses of Adjoining Properties**

Visual inspection of adjoining properties revealed the following (see Adjoining Properties Map in Appendix):

North of the Site: Dean Street, vacant lot with junked vehicles, and residential buildings.

South of the Site: Residential buildings.

East of the Site: Residential structures and a bus service company.

West of the Site: Mother Gaston Boulevard and retail/residential buildings.

## **4.0 USER PROVIDED INFORMATION**

### **4.1 Title Records**

Title records were not provided to SMES by the client and/or representatives of the subject property for review.

#### **4.2 Environmental Liens**

No environmental liens, associated with the subject property, were reported to SMES by the client.

#### **4.3 Specialized Knowledge**

The client and/or representatives of the subject property did not advise SMES of any specialized knowledge of RECs in connection to the subject property.

#### **4.4 Valuation Reduction for Environmental Issues**

SMES was not advised of any information that would reduce the value of the target property due to environmental issues.

#### **4.5 Owner, Property Manager, and Occupant Information**

Based on information obtained from the New York City Department of Finance – Office of City Register and/or New York City Property Information System, Block: 1450 and Lot: 9 is currently owned by the City of New York and Block: 1450 and Lots: 8, 10, 11, & 14 are currently owned by the New York City Department of Housing Preservation and of Development (NYCHPD). The subject property is currently unoccupied.

#### **4.6 Reason for Performing Phase I Environmental Site Assessment**

The reason this Phase I ESA was requested by Habitat for Humanity - New York City was to identify, to the extent feasible, recognized environmental conditions (RECs) associated with the subject property as Habitat for Humanity - New York City is in the process of obtaining ownership of the subject premises.

## 5.0 RECORDS REVIEW

### 5.1 Standard Environmental Record Sources

A review of available federal, state, and local environmental records was completed by EDR, Inc. (440 Wheelers Farms Road, Milford, CT) to assist in identifying RECs in connection with the target property (see EDR Environmental Database Report in Appendix). The standard environmental record sources reviewed and approximate minimum search distances are pursuant to current USEPA Standards and Practices and ASTM Standard Practice for Environmental Site Assessments. The following tables summarize results of the records review search:

<u>Federal Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
NPL	1.0	No
Proposed NPL	1.0	No
Delisted NPL	0.5	No
NPL Recovery	Target Property (TP)	No
CERCLIS	0.5	No
CERCLIS-NFRAP	0.5	No
CORRACTS	1.0	No
RCRA TSD	0.5	No
RCRA LQG	TP/Adj. Properties	No
RCRA SQG	TP/Adj. Properties	No
ERNS	TP	No
HMIRS	TP	No
US Eng Controls	TP	No
US Inst Controls	TP	No
DOD	1.0	No
FUDS	1.0	No
US Brownfields	0.5	No
Consent	1.0	No
RODS	1.0	No

UMTRA	0.5	No
ODI	0.5	No
TRIS	TP	No
TSCA	TP	No
FTTS	TP	No
SSTS	TP	No
ICIS	TP	No
PADS	TP	No
MLTS	TP	No
MINES	0.25	No
FINDS	TP	No
RAATS	TP	No
BRS	TP	No

<u>State and Local Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
HSWDS	0.5	No
SHWS	1.0	No
DEL SHWS	1.0	No
SWF/LF	0.5	<u>YES</u>
SWRCY	0.5	No
SWTIRE	0.5	No
LTANKS	0.5	<u>YES</u>
HIST LTANKS	0.5	<u>YES</u>
UST	TP/Adj. Properties	No
CBS UST	TP/Adj. Properties	No
MOSF UST	TP/Adj. Properties	No
AST	TP/Adj. Properties	No
CBS AST	TP/Adj. Properties	No
MOSF AST	TP/Adj. Properties	No
NY MANIFEST	TP	No
NY SPILLS	0.125	<u>YES</u>
NY HIST SPILLS	0.125	<u>YES</u>

ENG CONTROLS	TP	No
INST CONTROLS	TP	No
VCP	0.5	No
DRY CLEANERS	0.250	<u>YES</u>
BROWNFIELDS	0.5	No
SPDES	TP	No
AIRS	TP	No

<u>Tribal Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
INDIAN RESERV	1.0	No

<u>EDR Proprietary Records</u>	<u>Search Distance (miles)</u>	<u>Sites Identified within Search Distance</u>
MANUFACTURED GAS PLANTS	1.0	<u>YES</u>
EDR HISTORICAL AUTO STATIONS	TP	No
EDR HISTORICAL CLEANERS	TP	No

The target property did not appear within any of the aforementioned federal, state, and local databases or within the “orphan” report, which is a list of unmapped sites due to poor or inadequate address information. The following mapped sites were identified within a one (1) mile radius:

SWF/LF Sites:

1.) Afro Carting Co, located ¼ - ½ mile west northwest of the target property at 286 Saratoga Avenue, in Brooklyn, N.Y. Activity Description: Transfer station – regulated. Waste Type: Not reported.

2.) Aries Autoworld Ltd, located ¼ - ½ mile east northeast of the site at 2471 Atlantic Avenue, in Brooklyn, N.Y. Activity Description: Vehicle dismantling. Waste Type: Not reported.

3.) Big Apple Auto Inc, located ¼ - ½ mile southeast of the property at 1934 Pitkin Avenue, in Brooklyn, N.Y. Activity Description: Vehicle dismantling. Waste Type: Not reported.

NYSDEC LTANK Sites:

A total of thirty-one (31) LTANK and Historical LTANK Sites were identified within a ½ mile radius. Of the thirty-one (31) LTANK and Historical LTANK Sites, six (6) are listed as “active” status, meaning the spill investigations are on-going. The remaining LTANK Sites are listed as “closed” status, meaning the spills have been cleaned up, all paperwork completed, and no further action required by the NYSDEC. Of the “active” status sites, one (1) is documented as affected groundwater and five (5) are documented as affecting the soil.

NYSDEC SPILL Sites:

Two (2) SPILL and Historical SPILL Sites were identified within a 1/8 mile radius. Both of these sites are listed as “closed” status, meaning the spills have been cleaned up, all paperwork completed, and no further action required by the NYSDEC.

Registered Dry Cleaners:

1.) Robo Dry Cleaners, located 1/8 – ¼ mile west southwest of the property at 2103 Bergen Street, in Brooklyn, N.Y.

2.) Giordano & Sons Inc., located 1/8 – ¼ mile northwest of the site at 165 Rockaway Avenue, in Brooklyn, N.Y.

Manufactured Gas Plants:

1.) Belmont Station, located ½ – 1 mile southeast of the subject property at Belmont, Williams, Alabama, and Sutter Avenues, in Brooklyn, N.Y.

## **5.2 Additional Environmental Record Sources**

The target property (Block: 1450 and Lots: 8, 9, 10, 11, & 14) did not appear within the City Environmental Quality Review (CEQR) Requirements Declarations, dated October 11, 2005, as being E-designated.

### *Borough of Brooklyn Building Department & New York City Fire*

*Department (NYCFD)* – The local building department and NYCFD searches were excluded from this Phase I Environmental Site Assessment. According to ASTM guidelines, a standard historical source may be excluded (1) if the source is not reasonably ascertainable or (2) if past experience indicates that the source is not likely to be sufficiently useful, accurate, or complete in terms of satisfying uses of property.

## **5.3 Physical Setting Source(s)**

### *Topography*

Information obtained from the 7.5 minute series, Brooklyn, NY Quadrangle Topographic Map, published by the US Department of the Interior, Geological Survey, revealed that the subject property is located approximately sixty to seventy (60-70) feet above mean sea level (see Topographic Map in Appendix).

### *Groundwater*

Information obtained from the Water Table on Long Island, New York, March – April 1984, prepared by the United States Department of Interior, Geological Survey, indicated an estimated depth to groundwater of approximately fifty to sixty (50-60) feet below existing grade. This map indicates a southeasterly trending groundwater flow component towards local bodies of water.

## **5.4 Historical Use Information on the Property**

### **Historical Overview**

Review of historical Sanborn maps, dated 1888, 1908, 1932, 1951, 1963, 1965, 1978-1980, 1982, 1987-1989, and 1991-1995, indicated that the target property consisted of several former buildings used for residential purposes in 1888. Since the early 1900's, pre-existing site buildings were utilized for residential, retail, manufacturing, commercial, and garage purposes. In 1951, 1963, and 1965, the 1<sup>st</sup> floor of the buildings located at 201 & 203 Mother Gaston Boulevard were utilized for clothing manufacturing. Further, a Certificate of Occupancy, dated Jan. 1953, indicated the use of a building located at 201/203 Stone Avenue for four (4) families, a dress factory, and a two (2) car garage. Information gathered from the review of City Directory Abstract (CDA) revealed that a former building located at 201 Mother Gaston Boulevard (F/K/A Stone Avenue) was occupied by "Carroll Roofing Sheet Metal Wks" in 1928 and "Stone Refrigeration & Compressor Supply" during the 1970's and 1980's and a former building located at 2400 Dean Street was occupied by "Metro Cooling Systems" in 1960. The remaining names listed in the CDA appear to have occupied the former site buildings as living quarters.

Be advised that fill material was likely used to fill former building areas and bring the subject property to its current elevation. The origin and environmental quality of any imported fill material is unknown.

### **City Directory Abstract**

A City Directory Abstract (CDA) search was conducted by EDR Inc., 440 Wheelers Farms Road, Milford, CT, for addresses formerly associated with the subject property. The CDA included select national repositories of business directories, including city, cross reference, and telephone directories. These directories were reviewed, if available, at approximately five year intervals for the years spanning 1928 through 2000 (these years are not necessarily inclusive). According to the CDA, addresses formerly associated with the target property were occupied by the following (see CDA in Appendix):

201 Stone Avenue/Mother Gaston Boulevard

<u>Year(s)</u>	<u>Use(s)</u>
1928	Carroll Roofing Sheet Metal Wks
1934	Dalessandio Jos Lab H, Desanto Domenico Cigars, Masone Henry Barber, Dalessandio Esther Fcty Wrkr R, Dalessandio Flora Fcty Wkr R
1940	Address Not Listed in Research Source
1945	Address Not Listed in Research Source
1949	Address Not Listed in Research Source
1960	Address Not Listed in Research Source
1965	Address Not Listed in Research Source
1970	Adjon Sportswear Co
1973	Cm Clarin Inc, Stone Refrigeration & Compressor Supl
1976	Stone Refrigeration & Compressor Supl
1980	Address Not Listed in Research Source
1985	Stone Refrigeration & Compressor Supl
1992	Address Not Listed in Research Source
1997	Address Not Listed in Research Source
2000	Address Not Listed in Research Source

203 Stone Avenue/Mother Gaston Boulevard

<u>Year(s)</u>	<u>Use(s)</u>
1928	Address Not Listed in Research Source
1934	Address Not Listed in Research Source
1940	Sasso Anthony Fuel Oil
1945	Sasso Anthony
1949	Carfora Nancy, Masone Henry P
1960	Carfora Nancy, DeSantis Pat, Nuzzi Marion
1965	Carfora Nancy, Nuzzi Anna, Panico Domenick, Pistone Carmelo
1970	Nappi Sabato, Panico Domenick, Pistone Carmelo

1973	Castaldo Lorenzo, Gusuele Stella, Nappi Sabato, Panico Domenick
1976	Castaldo Lorenzo, Quiros Elba
1980	Address Not Listed in Research Source
1985	Address Not Listed in Research Source
1992	Watkins H
1997	Address Not Listed in Research Source
2000	Address Not Listed in Research Source

205 Stone Avenue/Mother Gaston Boulevard

<u>Year(s)</u>	<u>Use(s)</u>
1928	Address Not Listed in Research Source
1934	Donofrio Alf Chauf, Donofrio Emil, Stone Barber Shop, Donofrio Fredk Fcty Wkr, Donofrio Rose Fcty Wkr
1940	Address Not Listed in Research Source
1945	Address Not Listed in Research Source
1949	Donofrio Alfred, Rosenwasser & Son Sportswear
1960	Biscardi Ralph, Centorrino Jos
1965	Esposito Gennaro
1970	Del Pennimo Patsy, Esposito Gennaro, Kurman F
1973	Kurman F
1976	Esposito Gennaro, Kurman F
1980	Address Not Listed in Research Source
1985	Kurman F, Petito M
1992	Kurman F
1997	Address Not Listed in Research Source
2000	Address Not Listed in Research Source

2396 Dean Street

<u>Year(s)</u>	<u>Use(s)</u>
1928	Address Not Listed in Research Source
1934	Pirozzi Elio Lab, Pirozzi Ida Fcty Wkr, Pirozzi Loretta Fcty Wkr, Pirozzi Lucy Fcty Wkr, Pirozzi Martin Lab
1940	Address Not Listed in Research Source
1945	Address Not Listed in Research Source
1949	Address Not Listed in Research Source
1960	Defalco Louis, Dinardo Mary
1965	Dinardo Mary
1970	Address Not Listed in Research Source
1973	Address Not Listed in Research Source
1976	Address Not Listed in Research Source
1980	Address Not Listed in Research Source
1985	Address Not Listed in Research Source
1992	Address Not Listed in Research Source
1997	Address Not Listed in Research Source
2000	Address Not Listed in Research Source

2400 Dean Street

<u>Year(s)</u>	<u>Use(s)</u>
1928	Address Not Listed in Research Source
1934	Tumberelle Chas Baker
1940	Address Not Listed in Research Source
1945	Address Not Listed in Research Source
1949	Address Not Listed in Research Source
1960	Lagatta Salvatore, Metro Cooling Systems
1965	Address Not Listed in Research Source
1970	Lagatta Salvatore
1973	Lagatta Salvatore

1976	Lagatta Salvatore
1980	Address Not Listed in Research Source
1985	Address Not Listed in Research Source
1992	Address Not Listed in Research Source
1997	Address Not Listed in Research Source
2000	Address Not Listed in Research Source

Historical Sanborn Maps

Review of historical Sanborn maps (obtained from EDR Inc., 440 Wheelers Farms Road, Milford, CT), dated 1888, 1908, 1932, 1951, 1963, 1965, 1978-1980, 1982, 1987-1989, and 1991-1995, revealed the following (see Sanborn fire insurance maps in Appendix):

<u>Year(s)</u>	<u>Description</u>
1888	The target property consisted of six (6) structures used for residential purposes.
1908	The property consisted of several multi-story buildings used for retail purposes and a vacant lot.
1932	The site consisted of several multi-story buildings utilized for retail purposes. Notably, the building located at 203 Mother Gaston Blvd. was vacant.
1951, 1963, 1965, 1978, 1979, 1980, 1982, 1987, 1988, 1989, 1991, & 1992	The subject property consisted of several multi-story buildings used for residential, retail, manufacturing, commercial, and garage purposes. In 1951, the 1 <sup>st</sup> floor of the building located at 201 Mother Gaston Blvd. was utilized for clothing manufacturing and in 1963 & 1965, the 1 <sup>st</sup> floor of the buildings located at 201 & 203 Mother Gaston Blvd. were used for clothing manufacturing.
1993, 1994, & 1995	The target site consisted of three (3) multi-story buildings utilized for manufacturing, commercial, and residential purposes and vacant land.

### Historical Aerial Photographs

Review of historical aerial photographs (obtained from EDR Inc., 440 Wheelers Farms Road, Milford, CT), dated 1954, 1966, 1975, 1984, and 1994, revealed the following (see aerial photographs in Appendix):

<u>Year(s)</u>	<u>Description</u>
1954, 1966, 1975, 1984, 1994	Aerial photographs indicated similar conditions to that which were identified at the subject property within the Sanborn fire insurance maps discussed above.

### History of Ownership

A search of property records, obtained from the New York City Department of Finance – Office of the City Register, was conducted in order to identify any previous owners that may have impacted the environmental quality at the subject property (Block: 1450 and Lots: 8, 9, 10, 11, & 14). None of the names listed on record are known to us as being associated with the types of operations that could have generated, manufactured, sold, or distributed hazardous wastes or hazardous chemicals.

### **5.5 Historical Use Information on Adjoining Properties**

Review of historical Sanborn maps, dated 1888, 1908, 1932, 1951, 1963, 1965, 1978-1980, 1982, 1987-1989, and 1991-1995, revealed the following information pertaining to historical uses on adjoining properties:

- Adjoining properties to the north and east consisted of Dean Street and Mother Gaston Boulevard (F/K/A Stone Ave.), respectively.
- Neighboring sites to the south consisted of buildings used for residential, retail, auto part storage, auto body manufacturing/repairing, and furniture finishing purposes dating back to 1888.
- The adjacent property to the east consisted of a garage and building utilized for residential/retail purposes from at least 1888 until 1992. This property consisted of vacant land from 1993 through 1995.

## **6.0 SITE RECONNAISSANCE**

### **6.1 Methodology and Limiting Conditions**

The site reconnaissance included a “walk through” inspection of all accessible portions of the subject premises on September 20, 2007. Mr. Paul Thibault of Habitat for Humanity - New York City was present during the site reconnaissance.

### **6.2 General Site Setting**

The subject property, which includes five (5) city lots, currently consists of vacant land comprised of exposed surface soils, secondary vegetation, and deciduous trees. Chain-link fencing bordered the northern and western portions of the site (see Site Plan and Site Photographs in Appendix).

### **6.3 Observations**

Visual inspection of the site revealed exposed surface soils, secondary vegetation, and deciduous trees. Small quantities of common household trash were observed throughout the property.

### **6.4 PCB's**

There were no items observed at the subject property that potentially may contain PCB's, i.e., electrical transformers, capacitors, or hydraulic systems.

### **6.5 Aboveground Storage Tank(s)(AST's)**

No aboveground storage tanks (AST's) were identified at the target property.

### **6.6 Underground Storage Tank(s)(UST's)**

There was no visible evidence, i.e., fill ports, vent pipes, to suggest the presence of underground storage tanks (UST's) at the property.

**6.7 Chemicals, Hazardous Materials/Waste Storage, and Disposal**

There was no evidence to indicate the current use, storage, and/or disposal of chemicals, hazardous materials and/or hazardous wastes at the subject property.

**6.8 Water Supply/Monitoring Wells**

No groundwater monitoring and/or water supply wells were visually identified at the target property.

**6.9 Drainage Structures**

There was no drainage structures visually observed at the site.

**6.10 Stained Soils/Stressed Vegetation**

There were no visual indications of stained soils and/or stressed vegetation at the subject property.

**6.11 Surface Water Bodies**

There was no visible evidence of any surface water bodies present on or contiguous to the site (i.e., rivers, streams, lakes, ponds, ditches, etc.).

**7.0 INTERVIEWS**

Interviews with personnel knowledgeable with the subject facility were completed as part of this Phase I Environmental Site Assessment process. The information gathered from these interviews is included throughout this report.

## **8.0 FINDINGS**

A Phase I Environmental Site Assessment (ESA) was conducted by Soil Mechanics Environmental Services (SMES) at the property located at 201, 203, & 205 Mother Gaston Boulevard (f/k/a Stone Avenue) and 2388, 2396, & 2400 Dean Street (Block: 1450 and Lots: 8, 9, 10, 11, & 14), in Brooklyn, N.Y. for Habitat for Humanity - New York City. The Phase I ESA was completed in conformance with current ASTM E 1527 and United States Environmental Protection Agency (USEPA) "all appropriate inquiry" standards and practices.

The subject property currently consists of vacant land comprised of exposed surface soils, secondary vegetation, and deciduous trees.

The general area of the target property is predominately used for retail and residential purposes. A building located northeast of the target property is presently occupied by a bus service company.

One (1) Manufactured Gas Plant Site (Belmont Station) was identified within a 1 mile radius; three (3) SWF/LF Sites (Afro Carting Co, Aries Autoworld Ltd, and Big Apple Auto Inc) and thirty-one (31) LTANK and Historical LTANK Sites were identified within a ½ mile radius; two (2) Registered Dry Cleaner Sites were identified within a ¼ mile radius; and two (2) SPILL/Historical SPILL Sites were identified within a 1/8 mile radius. Of the thirty-three (33) LTANK/SPILL or Historical LTANK/SPILL Sites, six (6) are listed as "active" status and the remaining are listed as "closed" status. Of the "active" status sites, one (1) is documented as affecting the groundwater and five (5) are documented as affecting the soil. The "active" status site documented as affecting the groundwater is located ¼ to ½ mile southwest from the subject property.

Review of historical Sanborn maps, dated 1888, 1908, 1932, 1951, 1963, 1965, 1978-1980, 1982, 1987-1989, and 1991-1995, indicated that the target property consisted of several former buildings used for residential purposes in 1888. Since the early 1900's, pre-existing site buildings were utilized for residential, retail, manufacturing, commercial, and garage purposes. In 1951, 1963, and 1965, the 1<sup>st</sup> floor of the buildings located at 201 & 203 Mother Gaston Boulevard were utilized for clothing manufacturing. Further, a Certificate of

Occupancy, dated Jan. 1953, indicated the use of a building located at 201/203 Stone Avenue for four (4) families, a dress factory, and two (2) car garage. Information gathered from the review of City Directory Abstract (CDA) revealed that a former building located at 201 Mother Gaston Boulevard (f/k/a Stone Avenue) was occupied by "Carroll Roofing Sheet Metal Wks" in 1928 and "Stone Refrigeration & Compressor Supply" during the 1970's and 1980's and a former building located at 2400 Dean Street was occupied by "Metro Cooling Systems" in 1960. The remaining names listed in the CDA appear to have occupied the former site buildings as living quarters.

Be advised that fill material was likely used to fill former building areas and bring the subject property to its current elevation. The origin and environmental quality of any imported fill material is unknown.

Visual inspection of the subject premises did not reveal any of the following: items which may potentially contain PCB's; aboveground storage tanks (AST's); underground storage tanks (UST's); the use, storage, and/or disposal of chemicals, hazardous materials, and/or hazardous wastes; water supply wells/ groundwater monitoring wells; drainage structures; or stained soils/distressed vegetation.

## **9.0 OPINIONS**

- The bus service company located northeast of the target property did not appear within any of the federal, state, or local environmental records as a property with documented spills and/or releases, etc. Accordingly, based on this information, this nearby site does not represent a REC.
- With respect to the Manufactured Gas Plant Site (Belmont Station) and SWF/LF Sites (Afro Carting Co, Aries Autoworld Ltd, and Big Apple Auto Inc), located in proximity to the subject property, based on the location and/or hydrodynamic positioning of these sites in relation to the target property they do not appear to represent RECs.

- Due to the “closed” status, resource affected, and/or hydrodynamic positioning relative to the project site, each of the LTANK/Historical LTANK Sites and SPILL/Historical SPILL Sites identified within a ¼ or 1/8 mile radius of the subject property is not representative of RECs.
- Neither of the Registered Dry Cleaner Sites identified within a ¼ mile radius were cited within other federal, state, or local environmental records as properties with contamination or requiring remedial efforts. As such, these sites do not represent RECs.
- Former site buildings were historically utilized as a dress factory and clothing manufacturing and/or occupied by “Carroll Roofing Sheet Metal Wks”, “Stone Refrigeration & Compressor Supply”, and “Metro Cooling Systems”. As these operations and/or businesses could be considered environmentally sensitive, these historic uses/occupants are representative of RECs.
- Due to the unknown origin and environmental quality of imported fill material, likely used to fill former building areas and bring the subject property to its current elevation, the likely presence of this material is representative of a REC.
- There was no visible evidence, i.e., fill ports, vent pipes, to suggest the presence of underground storage tanks (UST’s) at the property. However, in the event UST’s are encountered during site development activities, they should be properly closed/removed in accordance with applicable local, state, and federal regulations.

## 10.0 CONCLUSIONS

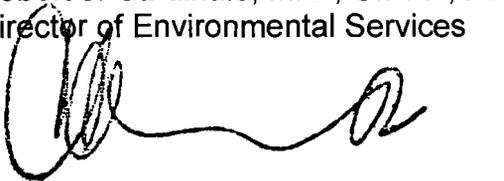
We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of current ASTM Practice E 1527 and United States Environmental Protection Agency (USEPA) "all appropriate inquiry" standards and practices at 201, 203, & 205 Mother Gaston Boulevard (F/K/A Stone Avenue) and 2388, 2396, & 2400 Dean Street (Block: 1450 and Lots: 8, 9, 10, 11, & 14), in Brooklyn, N.Y., the property. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the property except for the following:

- Historical uses/occupants of former site buildings as a dress factory and clothing manufacturing and/or "Carroll Roofing Sheet Metal Wks", "Stone Refrigeration & Compressor Supply", and "Metro Cooling Systems".
- The likely presence of fill material throughout the subject property used to fill former building areas.

## 11.0 SIGNATURE(S)

  
Daren Murphy  
Environmental Scientist

  
Robert J. Cardinale, M.S., C.P.G., P.G.  
Director of Environmental Services

  
Carl Vernick, P.E.  
President

We declare that to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Proposed Rules Section 312.10 of 40 CFR 312.

We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the “all appropriate inquiries” in conformance with the standards and practices set forth in Proposed Rules 40 CFR Part 312.

## **12.0 DISCLAIMER**

The findings, opinions, and conclusions presented in this report are based on information obtained within the scope of this investigation. The opinions and conclusions represent our best judgment using the information presently available.

# APPENDIX

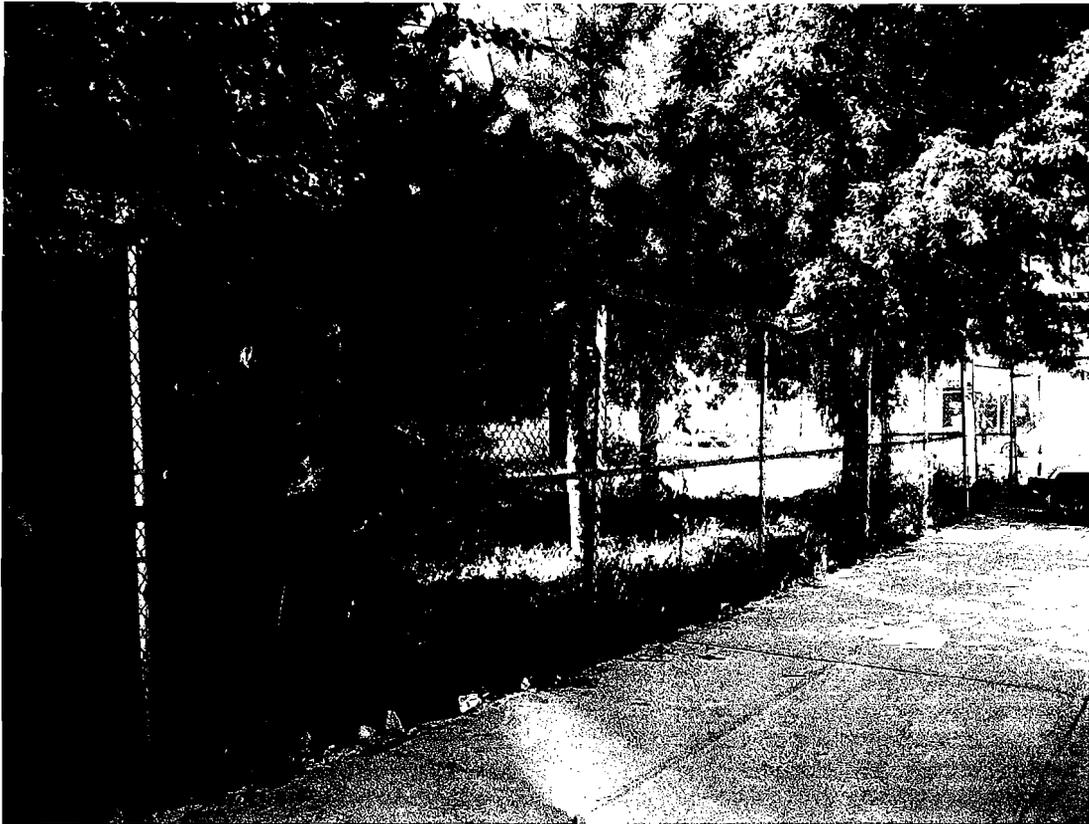
# SITE PHOTOGRAPHS



VIEW OF TARGET PROPERTY



VIEW OF TARGET PROPERTY

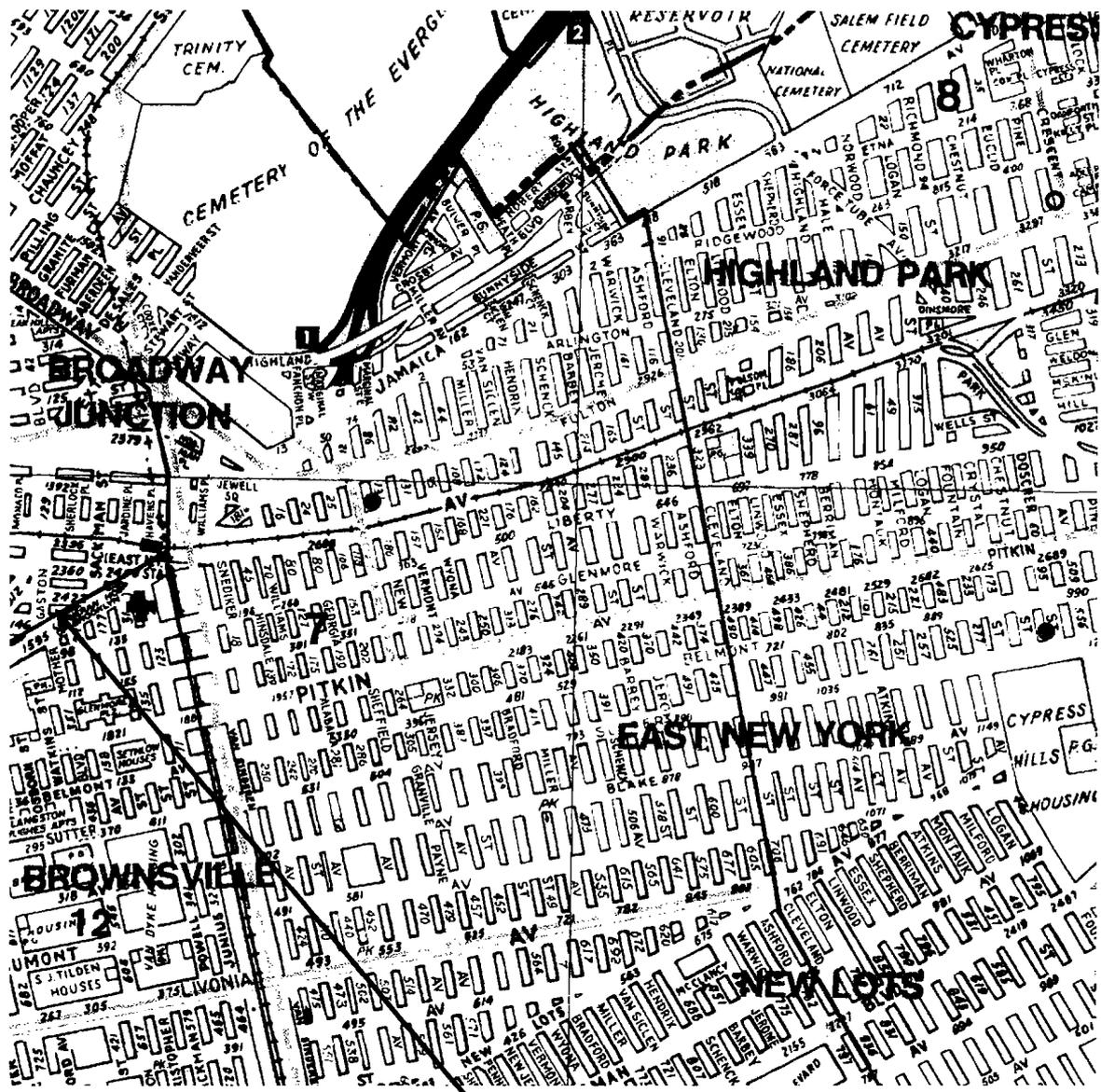


VIEW OF SITE ALONG DEAN STREET



VIEW OF SITE FROM MOTHER GASTON BOULEVARD

# SITE/VICINITY MAP



**TARGET PROPERTY**

**SOIL MECHANICS**

*Leading the Industry Since 1957*

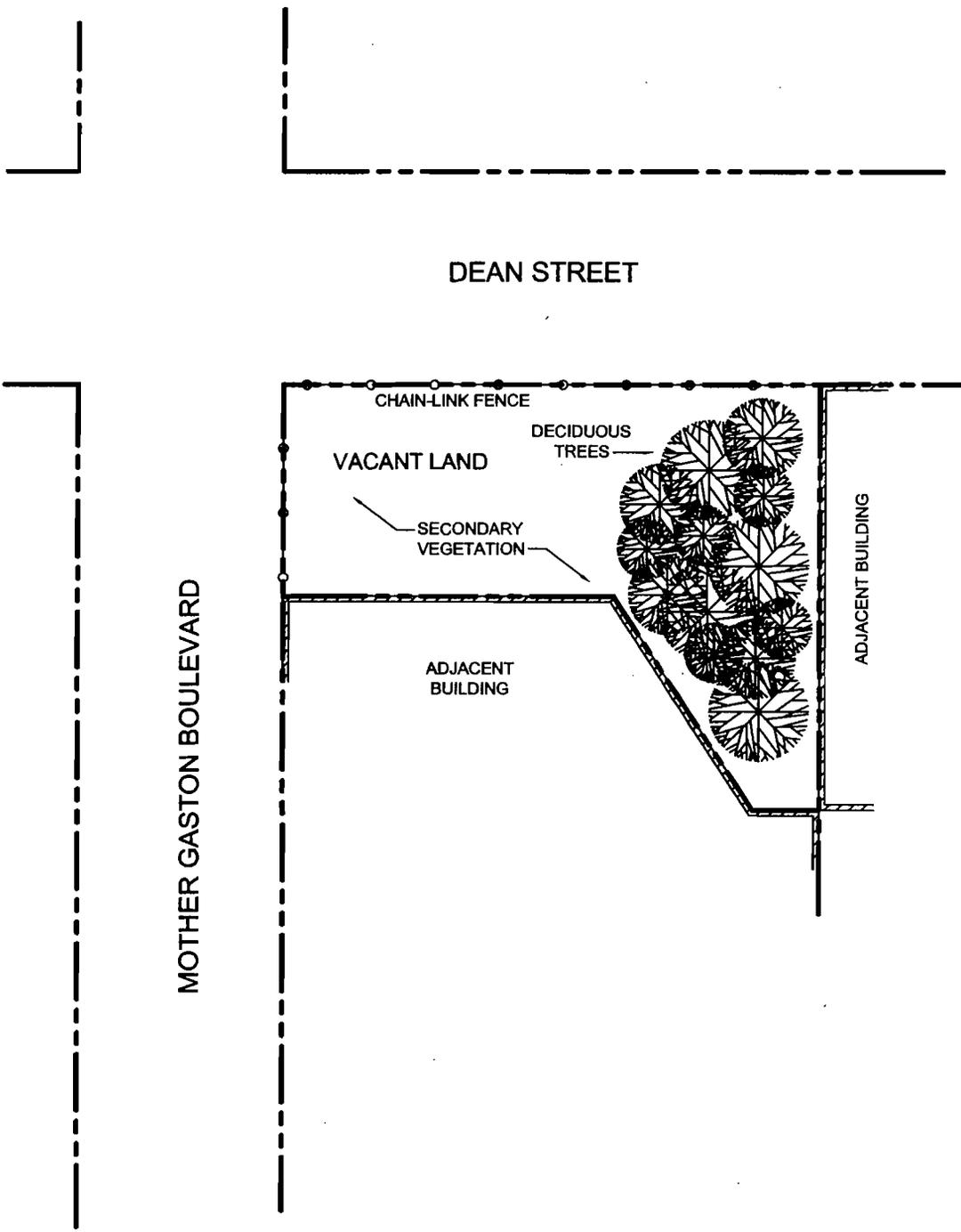
3770 MERRICK ROAD • SEAFORD, NY 11783  
 (516) 221-7500 FAX (516) 679-1900  
[www.soilmechanicscorp.com](http://www.soilmechanicscorp.com)

**SITEMICINITY MAP  
 BROOKLYN, N.Y.**

DATE: 10/04/07	
SCALE: N.T.S.	JOB NO.: 06-497

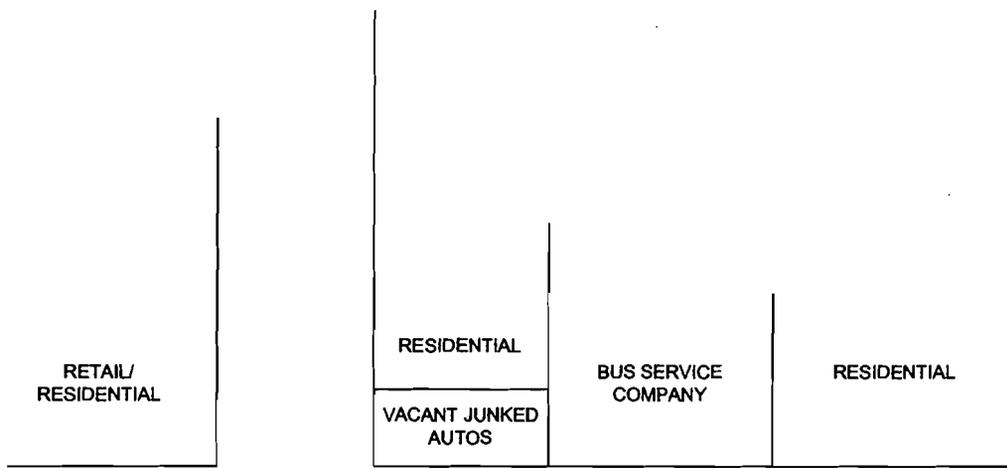


# SITE PLAN

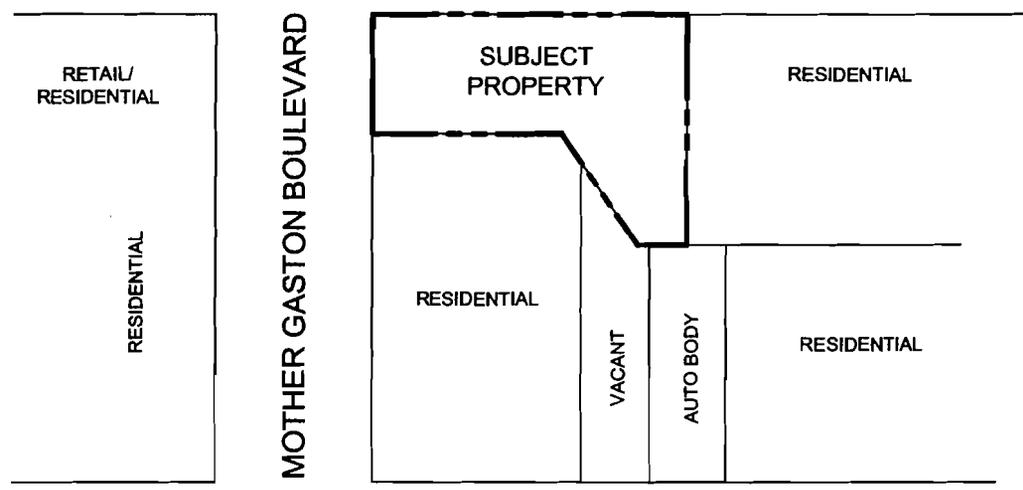


<b>SOIL MECHANICS</b>		
<b>ENVIRONMENTAL SERVICES</b>		
3770 MERRICK ROAD - SEAFORD, L I, NEW YORK - (516) 221-7500		
SITE PLAN		
BROOKLYN, NEW YORK		
SCALE:	N.T.S.	DATE: OCTOBER 8, 2007
		JOB NO. 06S497
	REVISED:	JMR

# ADJOINING PROPERTIES MAP



DEAN STREET



BERGEN STREET

<b>SOIL MECHANICS</b>		
<b>ENVIRONMENTAL SERVICES</b>		
3770 MERRICK ROAD - SEAFORD, L I, NEW YORK - (516) 221-7500		
<b>ADJOINING PROPERTIES MAP</b>		
BROOKLYN, NEW YORK		
SCALE:	N.T.S.	DATE: OCTOBER 8, 2007
		JOB NO. 06S497
	REVISED:	JMR

# TOPOGRAPHIC MAP



## TARGET PROPERTY

### SOIL MECHANICS

*Leading the Industry Since 1957*

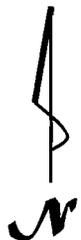
3770 MERRICK ROAD • SEAFORD, NY 11783  
 (516) 221-7500 FAX (516) 679-1900  
[www.soilmechanicscorp.com](http://www.soilmechanicscorp.com)

### TOPOGRAPHIC MAP BROOKLYN, N.Y.

DATE: 10/04/07

SCALE: N.T.S.

JOB NO.: 06-497





**- Investigation Work Plan -**

**for**

**Phase II Environmental Site Investigation**

**At**

**Mother Gaston Boulevard and Dean Street**

**Block 1450, Lots: 8, 9, 10, 11, & 14**

**Brooklyn, NY**

Prepared for:

Habitat for Humanity - New York City

111 John Street

New York, NY 10038

Prepared by:

ALC Environmental, Inc

121 West 27<sup>th</sup> Street, 402

New York, NY 10001

**Revised June 13, 2010**

**March 12, 2010**

## 1.0 Introduction

On behalf of Habitat For Humanity - New York City (the Client), ALC Environmental, Inc. (ALC) has prepared this Investigation Work Plan in response to work plan requests made by the United States Department of Housing and Urban Development (HUD), New York City Housing Preservation and Development (HPD), and the New York City Department of Environmental Protection (DEP) for the property identified by the New York City Department of Finance as Block 1450, lots 8, 9, 10, 11 and 14 (the Site). The Site is located at the intersection of Mother Gaston Boulevard and Dean Street in Brooklyn, NY. Figure 1 presents a topographic map of the Site and vicinity, Figure 2 presents the tax lot boundaries of the Site and vicinity and Figure 3 provides an aerial view of the Site and vicinity. The purpose of this site specific work plan is to assess the soil quality, groundwater quality (if encountered) and the subsurface conditions at the Site.

The site specific subsurface investigation work plan has been developed to present measures to determine the absence or presence of subsurface contamination at the Site by use of a geophysical investigation, subsurface soil sampling, groundwater sampling (if groundwater is encountered) analytical testing and other engineering judgment protocols in the field. Based on a review of the data collected, exposure to human and other natural life (e.g. animals and plants) will be evaluated for potential harm and/or unwanted conditions. Analytical results will present data to review for evaluating potential subsurface soil impacts and groundwater impacts (if present).

The Site measures approximately 13,250 square feet of undeveloped land and was previously developed with residential dwellings, light manufacturing and refrigeration companies. Surrounding properties include residential and retail properties in all directions. A property containing automotive waste is located to the north of the Site and a bus service company is

located northeast of the Site. The Site is bounded by Dean Street to the north and Mother Gaston Boulevard to the West. Figures 1, 2 and 3 present the Site location. Current development plans for Lots 8 through 11 include the construction of a multi-family residential home, and the development plans for Lot 14 include the construction of two (2) duplex residential units. The proposed maximum depth of excavation at the Site is not to exceed 20 feet below ground surface.

A Phase I Environmental Site Assessment (ESA) was completed for the Site in October 2007 by Soil Mechanics Environmental Services. The Phase I ESA identified the following Recognized Environmental Conditions (RECs):

- Historical uses of former site buildings as a dress factory and clothing manufacturing and/or "Carroll Roofing Sheet Metal Wks", "Stone Refrigeration & Compressor Supply", and "Metro Cooling Systems"; and
- The likely presence of fill material throughout the subject property used to fill former building areas.

Based on the development history of the Site, it is possible that abandoned Underground Storage Tanks (UST) are present at the Site.

The Phase I ESA did not identify any additional RECs with respect to the subsurface of the Site.

## 2.0 Site Setting and Description

The Site is bounded by Dean Street and Mother Gaston Boulevard. Property usage in the Site vicinity is mainly residential and retail. The Site is identified by the New York City Department of Finance as Block 1450, lots 8, 9, 10, 11 and 14 (the Site)The Site is currently vacant and unimproved.

### 2.1 Regional Geology and Hydrogeology

The site is located on U.S.G.S. Brooklyn, NY 7.5' Quadrangle topographic map (detail provided as Figure 1). The general site topographic gradient is in the southeast direction. Topographic conditions of the site vicinity are shown in Figure 1. The subject property is approximately 70 feet above mean sea level. The ground surface in the vicinity of the Site is covered with asphalt and concrete pavement. The bedrock which underlies this portion of New York City is generally metamorphic in character and Ordovician and Precambrian age. It lies close to the surface and is exposed in many locations, such as Central Park. The nearest body of water is the Ridgewood Reservoir, approximately 1.45 miles northeast of the subject property. Groundwater is expected to flow southeast.

### 2.2 Prior Environmental Investigations

A Phase I Environmental Site Assessment (ESA) was completed for the Site in October 2007 by Soil Mechanics Environmental Services. The Phase I ESA identified the following Recognized Environmental Conditions (RECs):

- Historical uses of former site buildings as a dress factory and clothing manufacturing and/or "Carroll Roofing Sheet Metal Wks", "Stone Refrigeration & Compressor Supply", and "Metro

Cooling Systems"; and

- The likely presence of fill material throughout the subject property used to fill former building areas.

Based on the development history of the Site, it is possible that abandoned Underground Storage Tanks (UST) are present at the Site.

### 3.0 Scope of Work

The objective of the Site Investigation is to evaluate the potential impacts, if any, to on-Site soil and groundwater due to the past or current on and off site activities and usages. All sampling and investigation activities will be performed in accordance with the NYSDEC Draft DER-10: Technical Guidance for Site Investigation and Remediation (December, 2002), the Spill Technology and Remediation Series (STARS #1): Petroleum-Contaminated Soil Guidance Policy (August, 1992), American Society for Testing and Materials (ASTM) E1903-97 (2002) Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process and where applicable, other relevant regulation and guidance for conducting investigations at contaminated sites. Results of the investigation will be used to determine the necessity of a remedial action work plan (RAWP). The scope of work for the Site Investigation is detailed below.

This proposed Site Investigation is intended to obtain information regarding the concerns discussed above, as follows:

- Presence/absence of abandoned USTs
- Surficial (between 0 and 2 feet below ground surface) soil quality at the Site
- Subsurface (between 0 and 20 feet below ground surface) soil quality at the Site
- Soil vapor quality at the Site
- Groundwater quality at the Site (if encountered)

The following six (6) tasks are proposed to meet these objectives:

- Task 1 – Geophysical Survey
- Task 2 – Soil sampling
- Task 3 – Groundwater sampling (if encountered)
- Task 4 – Soil gas sampling

- Task 5 – Laboratory Analysis
- Task 6 – Phase II Investigation Report
- Task 7 – Remedial Action Work Plan (RWAP, if necessary)

### **Task 1 – Geophysical Survey**

ALC will perform a geophysical survey utilizing magnetometric and ground penetrating radar (GPR) techniques to screen for presence of underground utilities and/or tanks. This survey will determine the presence and location and approximate orientation and size of any buried tanks and/or utility lines at the Site. Any underground structures discovered will be marked out for clarification. Pre-existing subsurface conditions may prevent geophysical techniques from working properly. These pre-existing conditions may cause buried features to be undetectable.

### **Task 2 – Soil Sampling**

A Geoprobe® remote access drill rig will be used to advance ten (10) soil borings at the Site. The borings will be advanced to a depth of 20 feet below surface grade or to groundwater, whichever is encountered first. Soil samples will be obtained using a stainless steel macrocore sampler with an internal acetate liner. Soil samples will be field-screened using a photoionization detector (PID), which measures relative concentrations of volatile organic compounds (VOCs) in the soil. At each boring location, ALC field personnel will record and document subsurface conditions. Soil lithology will be classified by the field engineer according to the Burmister soil classification system. Boring locations will be advanced at the locations indicated in Figure 4, biased towards any underground structures discovered during the geophysical investigation or at locations selected in the field by the engineer.

Samples will be collected using acetate liners. One (1) soil sample will be collected from the zero (0) to two (2) foot range in each boring and analyzed for VOCs, Semi-Volatile Organic Compounds (SVOCs), Target Analyte List (TAL) Metals, pesticides and Poly-Chlorinated Biphenyls (PCBs). An

additional sample will be collected from the remainder of each boring (2' to 20' below ground surface) and analyzed for SVOCs, TAL Metals, pesticides and PCBs. Grab sampling will be performed in the 6" interval (within the 2' to 20' below ground surface range of the boring) exhibiting the highest PID reading (or from the bottom of the boring). Grab samples will be collected from the submitted for VOC analysis.

### **Task 3 – Groundwater Sampling**

If groundwater is not encountered during the advance of the ten (10) soil borings described in Task 2, one (1) boring (to be centrally located within the Site, at the discretion of the field engineer) will be advanced to a depth of fifty (50) feet below ground surface, which is thirty (30) feet beyond the proposed excavation depth at the Site. If groundwater is encountered during the advancement of this boring, a Temporary Well Point (TWP) will be installed. The TWP will be constructed of Poly-Vinyl Chloride (PVC) piping. Groundwater samples will be collected from this TWP and analyzed for VOCs, SVOCs, TAL Metals, pesticides and PCBs. Figure 4 shows the proposed location of the TWP.

### **Task 4 – Soil Gas Sampling**

One (1) soil gas sample will be collected at the Site and submitted for laboratory analysis for VOCs. The soil gas probe will be advanced using a Geoprobe® direct-push drill rig to a depth of 20 feet below ground surface, which is comparable to the depth of the proposed foundation footings. A Summa canister will be utilized to collect the soil gas sample. The sample will be analyzed following EPA TO-15 method. Figure 4 shows the soil gas sample location.

### **Task 5 – Laboratory Analysis**

Soil and groundwater samples will be analyzed by a New York State Department of Health (NYSDOH) approved laboratory on a fourteen (14) day turnaround time (TAT). Soil samples will be transferred to the laboratory in supplied containers and will be properly labeled. Samples will be preserved in a

cooler on ice to maintain a temperature of 4° Celsius during shipment. Standard chain of custody procedures will be followed. VOC analysis will be conducted utilizing EPA Method 8260B, SVOC analysis will be conducted utilizing EPA Method 8270C, PCB analysis will be conducted utilizing EPA Method 8082, pesticide analysis by EPA Method 1699 and TAL Metals analysis will be conducted utilizing EPA Method 6020.

### **Task 6 – Phase II Investigation Report**

A Phase II Investigation Report will be prepared upon completion of the field investigations. It will consist of a technical overview of the work performed, including boring logs, a Site plan, findings and analytical results including tables and figures as well as conclusions and recommendations.

The summarized analytical tables will contain all analyzed contaminant constituents with correlating New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum (TAGM) #4046 Recommended Soil Cleanup Objectives (RSCOs), NYSDEC Part 375 and laboratory analytical sheets with chains of custody.

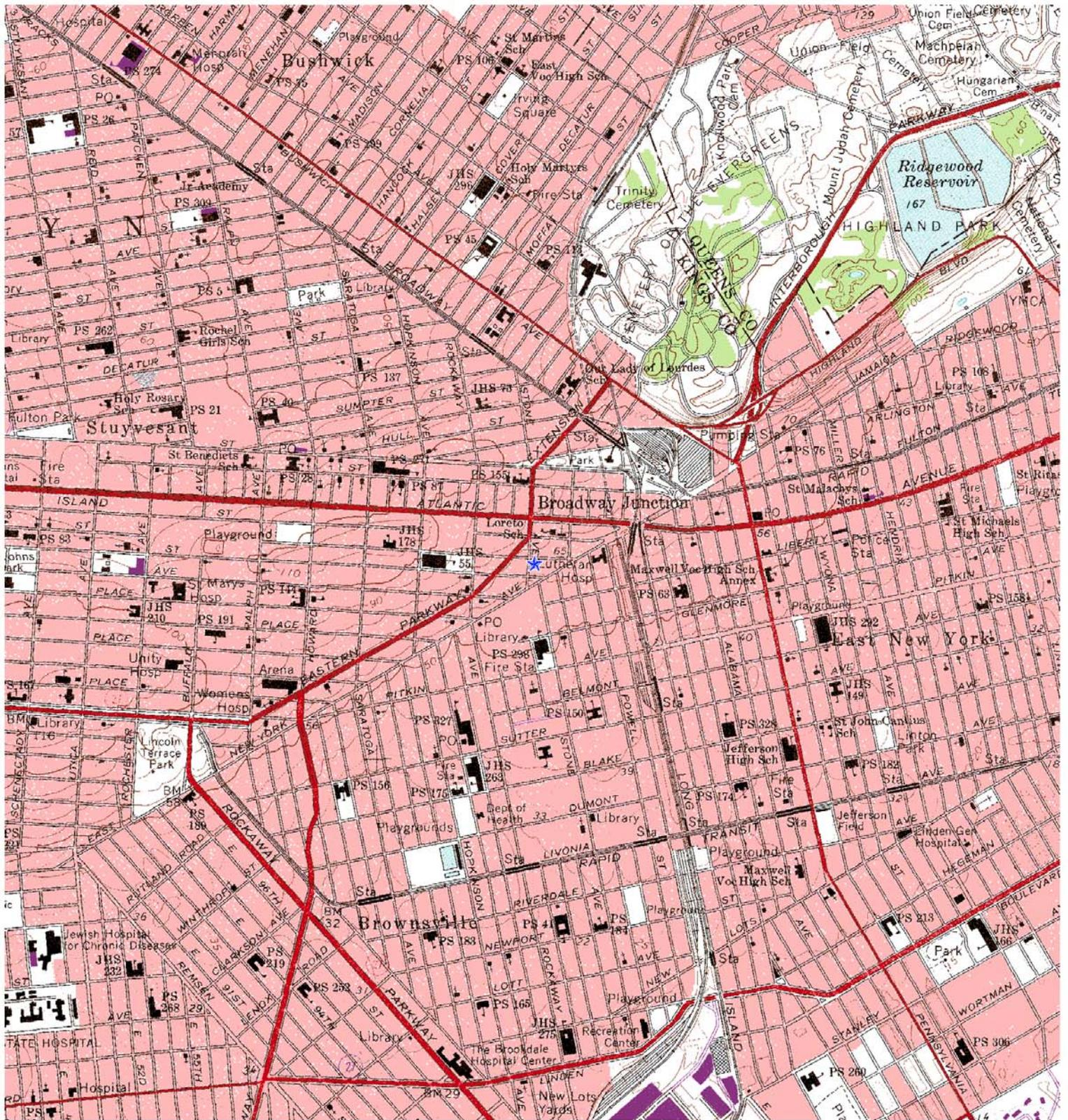
The Investigation Report will be prepared for HUD's, HPD's and DEP's review and acceptance.

### **Task 7 – Remedial Action Work Plan (RAWP)**

Based on the findings of Investigation Report, a Remedial Action Work Plan (RAWP) may be prepared with measures to ensure the remediation of the soil and vapor intrusion impacts.

Figure 1 – Site Topographic Map

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BLOCK 1450, LOTS 8, 9, 10, 11 & 14, BROOKLYN, NY  
 FIGURE 1 - SITE TOPOGRAPHIC MAP

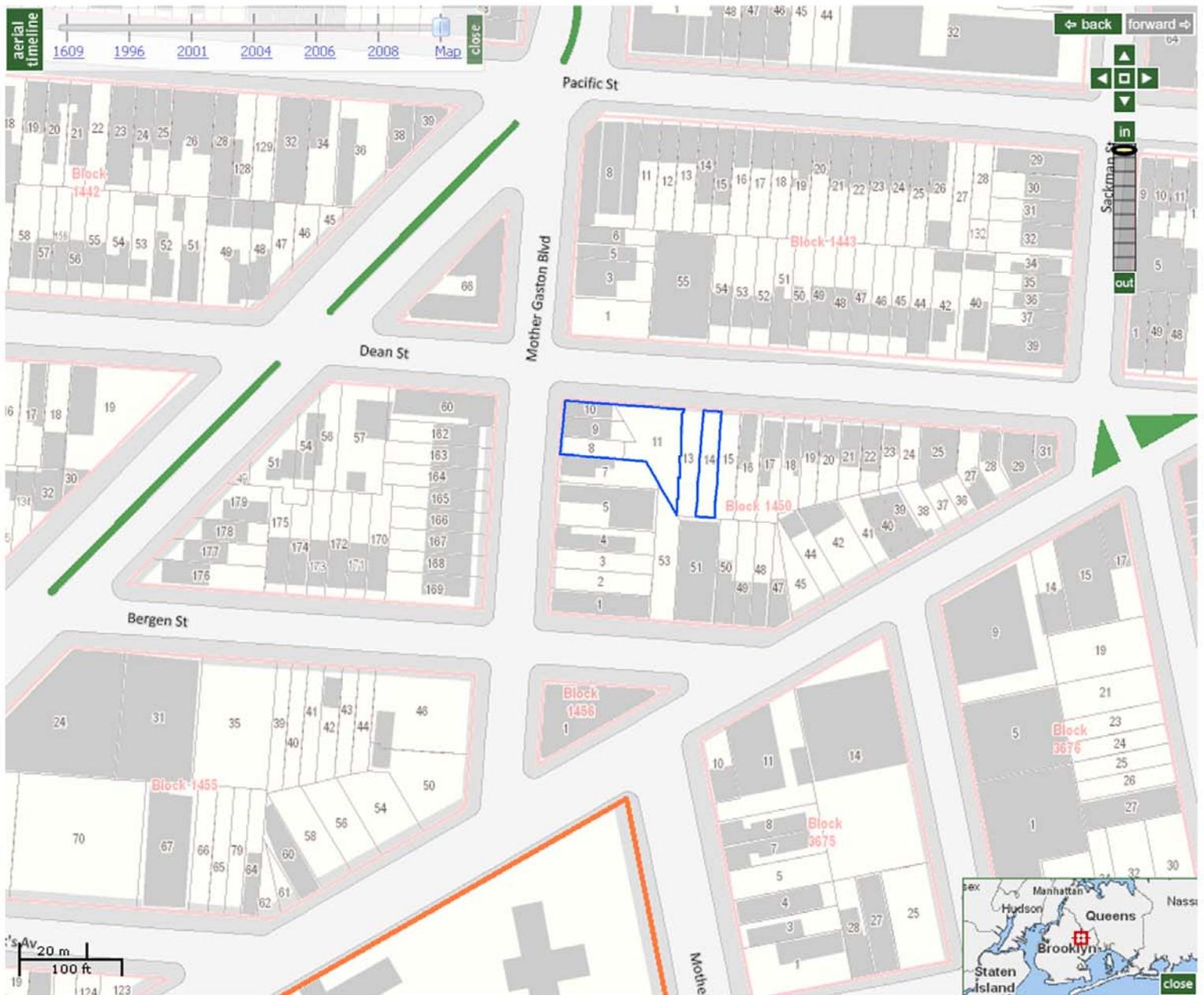
USGS TOPOGRAPHIC MAP  
 7.5 MINUTE SERIES  
 BROOKLYN QUADRANGLE  
 7.5 MINUTE SERIES  
 PHOTOREVISED 1979  
 ALC ENVIRONMENTAL, INC  
 MARCH 16, 2010



SITE LOCATION

Figure 2 – NYC Tax Map

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BLOCK 1450, LOTS 8, 9, 10, 11 & 14, BROOKLYN, NY  
 FIGURE 2 - NYC TAX MAP

2010 OASIS.NET

ALC ENVIRONMENTAL, INC  
 JUNE 13, 2010



SITE BOUNDARY

Figure 3 – Site Aerial Photo Map

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FIGURE 3 - SITE AERIAL PHOTO MAP  
BLOCK 1450, LOTS 8, 9, 10, 11 & 14, BROOKLYN, NY

2010 BLUESKY  
2010 SANBORN  
2009 GOOGLE

ALC ENVIRONMENTAL, INC  
MARCH 16, 2010



SITE LOCATION

Figure 4 – Proposed Sample Location Plan

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BLOCK 1450, LOTS 8, 9, 10, 11 & 14, BROOKLYN, NY  
 FIGURE 4- PROPOSED SAMPLE LOCATION PLAN

2010 BLUESKY  
 2010 SANBORN  
 2009 GOOGLE

ALC ENVIRONMENTAL, INC  
 JUNE 13, 2010



PROPOSED SOIL BORING LOCATION



PROPOSED SOIL GAS SAMPLE LOCATION



PROPOSED TEMPORARY WELL POINT LOCATION



SITE BOUNDARY

March 15, 2013

Patrick Blanchfield  
Director of Environmental Services  
NYC Department of Housing Preservation & Development  
100 Gold Street, Room 9K2  
New York, NY 10038

**Re: Investigation Work Plan Addendum  
201-205 Mother Gaston Boulevard (Block 1450, Lots 8-10)  
2396-2400 Dean Street (Block 1450, Lots 11 and 14)  
Brooklyn New York  
CEQR No. 09HPD032K  
Langan Project No.: 170157901**

Dear Mr. Blanchfield:

This letter serves as an Addendum to the Investigation Work Plan (IWP), dated March 12, 2010 (Revised June 13, 2010), and prepared by ALC Environmental, Inc. (ALC). ALC also prepared a Worker Health & Safety Plan (HASP), dated March 16, 2010. Both documents were prepared in accordance with the requirements of the Negative Declaration for the project, dated October 28, 2010, which requires that a subsurface investigation work plan and site-specific health and safety plan be submitted to the New York City Department of Housing Preservation and Development (HPD) for review and approval prior to implementation of the work.

Since the issuance of the Negative Declaration and the IWP/HASP, the proposed development has been modified slightly. In addition, our client, Habitat for Humanity, met with the New York City Office of Environmental Remediation (NYC OER) to discuss the proposed IWP and the possibility of entering the site into the City's Voluntary Cleanup Program. At this meeting, NYC OER requested small modifications to the number and location of soil borings, monitoring well locations and soil vapor points. This IWP Addendum documents these NYC OER-requested modifications and seeks approval from HPD of the same.

### **Modification of Development Plan**

Since the issuance of the Negative Declaration and the IWP, the proposed development has been modified as follows:

1. Site A - Block 1450, Lots 8-11:
  - a. The Negative Declaration indicates that three 4-story residential buildings containing a total of 12 dwelling units will be constructed

- b. Per the current development plan, four (not 3) 4-story residential buildings containing 15 dwelling units (not 12 dwelling units) will be constructed
2. Site B - Block 1450, Lot 14:
  - a. The Negative Declaration indicates that the site (vacant land) will be redeveloped with one 4-story residential building, containing 2 dwelling units
  - b. Per the current development plan, no building will be constructed on Lot 14

### **Modification of IWP Scope**

The IWC included the advancement and sampling of the following testing locations:

- 10 Soil Borings
- 1 Temporary Well Points
- 1 Soil Gas Sampling Locations

As requested by NYC OER, this IWC Addendum proposes the advancement and sampling of the following testing locations:

- 6 Soil Borings
- Up to 3 Soil Borings/Temporary Well Points
- 3 Soil Gas Sampling Locations

Due to the anticipated depth to groundwater of 60 feet below site grade, installation of three temporary well points may require excessive effort. The scope of this IWP will be limited to the advancement of one or two well points if reaching groundwater proves to be a hardship during field activities.

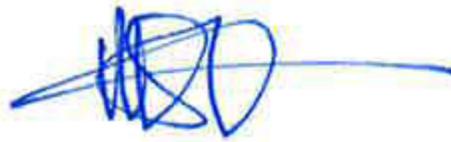
The methodology for the advancement and sampling of soil borings and soil gas sampling locations remains consistent with that included in the IWP, with the exception of the three soil borings that will be converted to temporary well points. A hollow-stem auger drill rig may be used to advance the soil borings/temporary well points in these locations.

A figure indicating the Revised Sampling Diagram is included in at an attachment to this IWP Addendum.

In closing, we request that HPD review and approve the IWP, the HASP and this Addendum to the IWP. Upon approval, we will begin scheduling and implementing the investigation scope and will submit an Investigation Report to HPD upon work completion.

Sincerely,

**Langan Engineering, Environmental, Surveying  
and Landscape Architecture, D.P.C.**



Mimi S. Raygorodetsky  
Senior Project Manager

MSR: msr

Enclosure(s): Revised Sampling Diagram

cc: Brian Cho / Habitat for Humanity  
Leonard Seif, Daphne Mitchell / HPD  
Dan Carrus / Langan



**GENERAL NOTES:**

1. BASE MAP IS REFERENCED FROM "PROPOSED SAMPLE LOCATION PLAN" BY ALC ENVIRONMENTAL INC., DATED 2010.

**LEGEND:**

-  PROPOSED SOIL BORING LOCATION
-  PROPOSED SOIL GAS SAMPLE LOCATION
-  PROPOSED SOIL BORING/TEMPORARY WELL POINT LOCATION
-  SITE BOUNDARY

 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc. Langan International LLC Collectively known as Langan	Project	Drawing Title	Project No.	Drawing No.	
	<b>DEAN STREET AND MOTHER GASTON BOULEVARD</b> BLOCK No. 1450, LOT Nos. 8, 9, 10, 11, & 14 BROOKLYN NEW YORK	<b>PROPOSED SAMPLE LOCATION PLAN</b>	170157901	<b>1</b>  Sheet 1 of 1	
			Date		3/14/2013
			Scale		NTS
			Drawn By		AT
Submission Date	3/14/2013				



**- WORKER HEALTH & SAFETY PLAN -**  
**for**  
**Phase II Environmental Site Investigation**  
**at**  
**Mother Gaston Boulevard and Dean Street**  
**Block 1450, Lots: 8, 9, 10, 11, & 14**  
**Brooklyn, NY**

Prepared for:

Habitat for Humanity - New York City  
111 John Street  
New York, NY 10038

Prepared by:

ALC Environmental, Inc  
121 West 27<sup>th</sup> Street, 402  
New York, NY 10001

March 16, 2010

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## 1.0 General Site Information

Site Location: Block 1450, lots 8, 9, 10, 11 and 14  
City/Town: Brooklyn  
County: Kings  
State: New York

### 1.1 Site Description and Project Background

At the request of Habitat for Humanity – New York City (the “client”), ALC Environmental, (“ALC”) of Manhattan, New York, has prepared this Site Specific Health and Safety Plan (HASP) for the Phase II Environmental Site Investigation (ESI) for the parcel located at Block 1450, lots 8, 9, 10, 11 and 14 in Brooklyn, hereinafter referred to as the “Site”. The Site is comprised of Block 1094, Lot 41. See **Figure 1** for the Site Location Plan. The Site is currently vacant and unimproved.

The Phase I Environmental Site Assessment was conducted by Soil Mechanics Environmental Services in October 2007. The Phase I indicated a Recognized Environmental Concern (REC) based on the historical usage at the Site, namely as refrigeration services and light manufacturing. In addition, the likely presence of urban fill at the Site was also cited as a REC. It should also be noted that based on the historical development of the Site, there is a possibility of abandoned Underground Storage Tanks (USTs) present at the Site.

### 1.2 Project Description

The subsurface investigation will be performed to characterize the physical and chemical characteristics of the soil and groundwater (if encountered) at the Site.

A geophysical investigation will be conducted at the Site utilizing magnetometric and Ground Penetrating Radar (GPR); the aim of which will be to locate any buried utilities or structures/

A total of six (6) soil borings will be advanced at the Site from zero (0) to twenty (20) feet below ground surface or to groundwater, whichever is encountered first. One (1) surface soil sample will be collected from each boring. The sample will be field-screened using a photoionization detector (PID), which measures relative concentrations of volatile organic compounds (VOCs) in the soil. The sample will be submitted for laboratory analysis for VOCs, Semi-Volatile Organic Compounds (SVOCs), Target Analyte List (TAL) metals, pesticides and Poly-Chlorinated Byphenyls (PCBs). If groundwater is encountered, one boring location will be field-chosen for the installation of a Temporary Well Point (TWP). One (1) groundwater sample will be collected from the well and analyzed for VOCs, SVOCs, TAL Metals, pesticides and PCBs.

Soil and air samples will be analyzed on a fourteen (14) day turnaround time (TAT). Quality Assurance/Quality Control (QA/QC) samples are not required for this ESI. Trip blanks will accompany soil and groundwater VOC samples at a rate of one per cooler. Field blanks and

duplicates for soil and collected at a rate of one per twenty samples (for soils) or one per day as field conditions dictate.

It is assumed that no investigation derived waste (IDW) will be generated during this investigation. All soil cuttings will be returned to the original test holes. Roadway/Sidewalk Opening permits will not be required for this project. All investigation work will be performed within the Site property.

### **1.3 Personnel**

The following is a list of the names and job functions of site personnel assigned to this project:

Senior Project Manager	Ms. Kinga Stryzowska
Senior Project Engineer	Mr. Daniel Carrus
Site Health and Safety Officer	Ms. Tania Castro
Site Inspector / Supervisor	To be determined
Project Engineer	To be provided as needed from staff
Administrative Support	To be provided as needed from staff

#### **Ms. Kinga Stryzowska – Senior Project Manager**

### **EDUCATION**

Masters Environmental Studies, University of New Haven, 2009  
Bachelors Environmental Science, Adelphi University, 2005

### **PROFESSIONAL SUMMARY**

Ms. Stryzowska has over 3 years of experience in the environmental field with expertise in environmental research and sampling, environmental restoration and conservation, statistical results analysis, mold inspection and Phase I Environmental Site Assessment. Ms. Stryzowska has a strong working knowledge of environmental principles and their application in a range of environmental situations. Her experience includes performance and preparation of indoor air quality assessments, performance and preparation of Phase I Environmental Site Assessments and management of environmental projects in a variety of settings.

### **PROFESSIONAL EXPERIENCE**

Conduct mold and indoor air quality investigations in single-family homes, residential buildings, and commercial spaces  
Provide mold inspection and abatement recommendations, and regulatory information to clients.  
Prepare project documentations for clients.  
Conduct Phase I Environmental Site Assessments including: site visits, environmental and historical records review and interpretation and report preparation

## **CERTIFICATIONS**

10 Hour OSHA Certification  
GIS – Geographic Information System certification

### **Daniel Carrus – Senior Project Engineer**

Mr. Carrus has 8 years experience in the environmental industry as a Senior Project Manager. He has performed asbestos, lead based paint, environmental site assessments and hazardous waste surveys of various major projects for both public and private sectors. He has also provided abatement and cleanup oversight at different levels of management on several major projects.

## **PROFESSIONAL SUMMARY**

- Performed field inspections and generated reports for several types of environmental projects including Phase I Environmental Site Assessments and Phase II Environmental Site Investigations in conjunction with land acquisitions and roadway and infrastructure upgrades, corridor assessment reports, limited sub-surface corridor investigations, underground storage tank investigations and closures, and asbestos and lead-based paint projects.
- Managed over \$1.5 million in contracts relating to lead- based paint inspections, investigations, risk assessments and consulting services, including management of relationships between firm and clients
- Acted as project manager on asbestos monitoring project for various agencies and clients. His Responsibilities included auditing practices and standards to determine potential areas of operational improvement, designing and implementing systems to increase efficiency of information and material flow between departments

## **EDUCATION**

BSE Chemical Engineering, Tulane University, May 2001

## **CERTIFICATIONS**

- OSHA 40-Hour HAZWOPER Certification
- US EPA Lead-Based Paint Risk Assessor
- Certified Niton and RMD XRF Analyst
- US EPA Lead-Based Paint Project Supervisor and Project Designer

**Tania Castro – Site Health and Safety Officer**

**EDUCATION**

Masters Environmental and Occupational Health Sciences, Hunter College  
Bachelors Biology, Maharishi University of Management

**PROFESSIONAL SUMMARY**

Ms. Castro has over 5 years of managerial experience in the environmental field with expertise in lead-based paint, indoor air quality, asbestos with a focus on environmental training. Ms. Castro has a strong working knowledge of applicable federal, state, and local regulations and has proven ability to customize services to fully satisfy the client's needs. Her experience includes training, asbestos inspections, indoor air quality inspections, lead inspection, abatement, abatement design, indoor and outdoor air monitoring; and management in a variety of public and commercial settings.

**PROFESSIONAL EXPERIENCE**

Managing the daily operations of the Indoor Air Quality Unit and Training Dept.

Provide Training to various clients

Analyze and QA/QC all field inspection results prior to report finalization.

Provide training for inspectors on remediation and mold inspections.

Prepare proposals, invoices, billings, and project documentations for clients.

Provide inspection and abatement recommendations, rate costs, and regulatory information to clients.

Perform and oversee ACE Environmental Risk mold awareness training account. Where mold awareness training seminars are presented all throughout the US and Canada

**KEY PROJECTS**

The New York School Construction Authority- Lead and Asbestos projects; Metropolitan Transit Authority- Lead and Asbestos Management Services; and ACE Environmental Risk- Health and Safety Training Program.

**CERTIFICATIONS**

EPA Lead Inspector/Risk Assessor

NYC Licensed Asbestos Investigator  
NYS DOL Asbestos Inspector and Project Designer  
29 CFR.120 (HAZWOPER).

## 2.0 Site Hazards

### Contaminant/Waste Characteristics:

General Forms:  solid  liquid  sludge  Gas/vapor

### Contaminant/Waste Classes:

corrosive       radioactive       reactive       toxic  
 ignitable       volatile       unknown       construction/medical

**Possible contaminant/wastes present:**

**SPACE LEFT BLANK**

<b>Chemical</b>	<b>Exposure limits</b>	<b>Routes of entry</b>	<b>Symptoms of over-exposure</b>
Acetone	NIOSH TWA 250 ppm OSHA TWA 1000 ppm	Inhalation, skin absorption	Irritation eyes, skin, nose, respiratory system; bone marrow complications
Benzene	NIOSH TWA 0.1 ppm ST 1 ppm OSHA TWA 1 ppm ST 5 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, staggered gait; anorexia, lassitude (weakness, exhaustion); dermatitis; bone marrow depression; [potential occupational carcinogen]
Ethynylbenzene	NIOSH TWA 40 ppm OSHA TWA 100 ppm	Inhalation.	Irritating to the eyes, the skin and the respiratory tract, aspiration into the lungs with the risk of chemical pneumonitis, central nervous system. Exposure at high levels may result in unconsciousness.
Lead	NIOSH TWA 250 ppm OSHA TWA 1000 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Blood and bone marrow damage, central nervous system depression, kidney damage, anemia, nerve disease, abdominal cramps and reproductive damage.
Mercury	NIOSH TWA 0.05 ppm OSHA TWA 0.05 ppm	Inhalation of its vapor and through the skin , also as a vapor	Central nervous system and kidneys, resulting in irritability, emotional instability, tremor, mental and memory disturbances, speech disorders. May cause inflammation and discoloration of the gums. Possibly causes toxic effects upon human reproduction.
MTBE	TLV: 50 ppm as TWA; A3; (ACGIH 2004). MAK: 50 ppm, 180 mg/m <sup>3</sup> ;	inhalation and ingestion.	Irritating to the skin, aspiration into the lungs may result in chemical pneumonitis. Exposure far above the OEL could cause lowering of consciousness.
Naphtha	NIOSH TWA NA OSHA TWA NA	Inhalation, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, central nervous system depression;

Naphthalene	NIOSH TWA 15 ppm OSHA TWA 10 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	The substance may cause effects on the blood, resulting in lesions of blood cells (haemolysis) . See Notes. The effects may be delayed. Exposure by ingestion may result in death. Medical observation is indicated.
Tetrachloroethene	NIOSH 75 ppm OSHA 75 ppm IDLH 1000 ppm	Inhalation, Ingestion	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, central nervous system depression; [potential occupational carcinogen]
Toluene	NIOSH TWA 100 ppm OSHA TWA 200 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, respiratory system; dizziness; headache, nausea, central nervous system damage and erratic heart beat
Xylene	NIOSH TWA 100 ppm ST 150 ppm OSHA TWA 100 ppm	inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation eyes, skin, nose, respiratory system, possible reproductive damage
Vinyl Chloride	NIOSH REL: CA 1 ppm OSHA TWA	Inhalation, skin and or eye contact of liquid	Weak abdominal pain, enlarged liver, pallor or cyan of extremities, liquid frostbite, gastrointestinal bleeding

**Notes :**

TLV= Threshold limit value

TWA= Time weighted average

**Safety hazards:**

- |  |  |
|--|--|
| <input type="checkbox"/> Poison ivy/oak  | <input type="checkbox"/> Stacked drums                             |
| <input checked="" type="checkbox"/> Wet or slippery surfaces                                   | <input type="checkbox"/> Ticks                                     |
| <input checked="" type="checkbox"/> Darkness   | <input type="checkbox"/> Infectious waste                          |
| <input checked="" type="checkbox"/> Surface debris (broken glass, sharp objects)               | <input type="checkbox"/> Excavations                               |
| <input checked="" type="checkbox"/> Excessive noise  | <input checked="" type="checkbox"/> Above or underground utilities |
| <input checked="" type="checkbox"/> hoses, tools, etc. on ground (slip, trip, fall)            | <input type="checkbox"/> Unstable building structures              |
| <input type="checkbox"/> Confined spaces (Confined Space Entry Program Required if applicable) |  |

MSDS Sheets for contaminants that may be encountered on site are included as **Appendix A**.

### 3.0 Site Operations

#### Tasks to be performed:

- Geophysical Investigation
- Sub-Surface soil sampling
- Sample collection of soil
- Groundwater sampling (if encountered)
- Sample collection of groundwater (if encountered)

#### Work Zone Map

Figures 1 and 2 indicate the perimeter of the Site which is also the work zone. Note that the exclusion zones will be in the immediate vicinity (minimum 25 feet radius) of the active work area and will be maintained only when the possibility of a hazardous situation exists. The support zone and personnel decontamination area will also move with the work zone.

#### Locations of Safety Equipment:

Safety Item	Safety Note	Location
Eye wash	Required for all intrusive activities	Personal eye wash in each first aid kit
First Aid Kit	Required for all activities	Support Zone

#### 4.0 Personal Protection

Level of Protection (L.O.P.) to be employed for each site task.

TASK	INITIAL L.O.P.	UPGRADE L.O.P.
Soil boring installation	D	C
Temporary well point installation	D	C
Soil and groundwater sample collection	D	C

Level D:

- steel toe/steel shank safety shoes
- rubber overboots or disposable boot covers (Modified Level D \*)
- Polyethylene coated Tyvek coveralls (Modified Level D \*)
- Nitrile Outer gloves (Modified Level D \*)
- Latex Inner gloves
- Face Shield (Modified Level D \*)
- hard hat \*      Yes       No \_\_\_
- safety glasses \*      Yes       No \_\_\_

Level C:

- steel toe/shank safety shoes
- rubber overboots or disposable boot covers
- full-face respirator with GMCH cartridges
- Polyethylene coated Tyvek coveralls
- Nitrile outer gloves
- Latex inner gloves
- hard hat \*      Yes       No \_\_\_

Level B\*: (Level B upgrade not planned for this site; if conditions exist that warrant this level of PPE, then work will be terminated until appropriate further actions to remediate conditions are determined)

- \_\_\_ steel toe/shank safety shoes
- \_\_\_ Rubber overboots or disposable boot covers
- \_\_\_ Pressure-demand SCBA
- \_\_\_ Saranex (or equal) coveralls
- \_\_\_ Nitrile outer gloves
- \_\_\_ Latex inner gloves

Hard hat    Yes \_\_\_    No \_\_\_

Other safety equipment:

- hearing protection \*
- tick spray
- Reflective Vests
- cooler(s)
- sunscreen
- Safety Cones
- Gatorade and cups (hot work only)

\* **Hearing protection, hard hat and safety glasses required while working near heavy equipment, e.g. Geoprobe®. Additional Modified Level D items such as: rubber overboots, PVC coated Tyvek coveralls, Nitrile Outer gloves and Face Shields will be required when investigating unknown waste materials if encountered.**

## 5.0 Air Monitoring

### 5.1 Monitoring Instruments

Instrument (make/model)	Purpose and Frequency	Response Ranges	Field Check Gas
HNU Systems Model PI-101 Photoionization Detector (PID) (or equivalent)	Breathing zone monitoring for total ionizable volatile organic compounds. Continuous Monitoring.	0 to 20 units 0 to 200 units 0 to 2,000 units by operator selection	The instrument is field checked with 100 ppm Isobutylene to read 55 ppm (benzene equivalent) at a 9.8 span setting.
Instrument (make/model)	Purpose and Frequency	Response Ranges	Field Check Gas
<b>NOTE:</b> Continuous monitoring shall be performed for level C protection. Soils shall be screened with the PID for contamination during investigative activities.			

### 5.2 Air Quality Action Levels

#### A. L.O.P. Action Levels:

Contaminant	Range	L.O.P.
Organic Vapors	Background to 5 ppm above background*	Level D
	5 ppm to 10 ppm above background*	Level C
	Greater than 10 ppm above background*	Level B

\* Concentrations above background sustained for one minute or longer

## **6.0 Decontamination**

All personnel and portable equipment used on site shall be thoroughly decontaminated before leaving the site.

### **6.1 Decontamination of Personnel**

Non-disposable clothing such as boots, goggles and hard hats shall be washed, as appropriate, using an Liqui-Nox and water solution and scrub brushes.

#### **Decontamination Procedure:**

1. Wash and rinse boots and gloves in an Liqui-Nox and water solution
2. Rinse again paying special attention to the soles of the boots
3. Remove tapes
4. Remove boots
5. Remove outer gloves
6. Remove coveralls
7. Remove outer surgical gloves (if present)
8. Remove respirator
9. Remove inner surgical gloves
10. Wash hands, arms and face

### **6.2 Decontamination of Equipment and Instruments**

#### **Small Equipment and Instruments:**

All reusable equipment shall be scrubbed with Liqui-Nox and water prior to removal from the site. If this method is not sufficient to decontaminate, steam cleaning will used, if applicable. When feasible, electronic instruments should be wrapped in plastic for protection to avoid washing instruments with water. Remember to allow intake ports, vents, etc. of the instruments for proper operation of the instrument.

#### **Heavy Equipment:**

Heavy equipment should be decontaminated prior to leaving the site. This should include manual removal of gross contamination with shovels or other tools. A steam cleaning station will be set up for decontamination of heavy equipment at the site or an area designated by the Field Operations Manager if necessary. Because decontamination at the steam cleaning station poses the possibility of a splash, the task should be performed using modified Level D personal protective equipment. Face shields are recommended during steam-cleaning operations if conducted.

### **6.3 Disposal of Contaminated Material**

It is anticipated that during the course of the site investigation, a limited quantity of investigative derived waste (IDW) may be generated, including personal protective equipment (PPE). Based on the types of sampling to be performed under this sampling plan, the quantity of waste material is not expected to be substantial and is expected to include PPE, drill cuttings, purge water from well development and sampling, and spent decontamination solutions. All PPE and disposable equipment will be removed from the site at the conclusion of the investigations. All IDW will be field screened with a photoionization detector (PID) for VOCs and be disposed appropriately either on-site or containerized for characterization and subsequent off-site disposal, if deemed necessary. Containerization of drill cuttings will be provided contingent on field screening observations.

### **6.4 Decontamination Equipment and Supply Checklist**

- Wash tubs/buckets
- Water sprayers
- Scrub brushes
- Liqui-Nox
- Deionized water
- Plastic garbage bags
- Disposable wipes
- Poly sheeting
- 55-gallon drums (if needed)

## 7.0 Emergency Response

### 7.1 Communication

Team members will always work in groups of two or more while on site. Visual contact distance among team members must be maintained at all times. Hand signals will be used on-site to ensure safety during high noise instances. Should an emergency occur, other team members will be alerted via hand signals, air horns, whistles or other devices.

**CONTINUOUS HORN/WHISTLE BLAST:** is the emergency signal to indicate the onset of an emergency requiring that personnel vacate the Exclusion Zone immediately and meet at the designated area discussed in Section 7.2 below.

### 7.2 Evacuation

In the event of an emergency, such as fire, explosion, toxic gas release etc, personnel will leave the site and congregate at the corner of Blackford Avenue and Treadwell Avenue.

### 7.3 Personnel Injury or Exposure

In the event of an injury within the Exclusion Zone, all equipment within the zone, if not needed for response to the emergency, will be shut down. On-site personnel trained in First Aid and CPR will initiate first response treatment of the injured person(s). An eyewash station and water sprayer shall be available in the CRZ or support zone. All other personnel will assemble at the decontamination line. The on-site Safety Officer and the Field Operations Manager will evaluate the nature and extent of the injury. The victim will be decontaminated to the extent possible before moving to the Support Zone. If necessary, emergency personnel will be contacted for medical aid and emergency transportation to **Richmond University Medical Center** (see Figure 3: Route to Hospital Map). No persons will re-enter the Exclusion Zone until the cause of the injury or symptoms have been determined.

#### **First aid for Personnel exposure:**

Skin contact: Flush with water

Inhalation: Move person to fresh air, provide respiration and transport to **Brookdale University Hospital** if signs of injury or exposure persist.

Ingestion: Decon and transport to **Brookdale University Hospital**.

## 7.4 Emergency Decon Procedures

If decon can be performed without aggravating injuries or delaying life-saving treatment, protective clothing will be washed, and rinsed or cut off from the injured personnel. If decon cannot be done, for instance due to signs of acute exposure being exhibited, the victim will be wrapped in blankets, plastic or rubber to reduce contamination of other on-site personnel and rescue workers, and transported to **Brookdale University Hospital**. Emergency and off-site medical personnel will be alerted to the risk of potential exposure to contamination while handling the injured wo

## 7.5 Emergency Information

Emergency Service:	Phone Number:
Ambulance	911
Emergency Room ( <b>Richmond University Med Center</b> )	911 or 718-818-1234
Police	911
Fire Department	911

If a field employee becomes injured or ill while on the job, transport to **Brookdale University Hospital**. Also, contact management. State that the injury or illness is an "on the job injury" and provide Material Safety Data Sheet for compounds involved.

Poison Control Center	(800) 962-1253
Office of Site Safety and Health	(609) 984-9779
USEPA Emergency Response	(800) 424-8802
ALC Environmental (main number)	(212) 675-5544
Program Director (Daniel Carrus)	(646) 434-8211
Project Manager (Kinga Stryszowska)	(917) 558-3874
Site Health and Safety Officer (Tania Castro)	(917) 892-4398
RI Task Leader (TBD)	( ) -

## 7.6 General Emergency Procedures

In the event of an emergency, the following initial procedures shall be implemented to ensure that the appropriate parties are notified and the scene of the emergency is secured:

- 1) Notify the appropriate local authorities (Police, Fire, Ambulance, etc.)
- 2) Notify the appropriate officials (Case Manager, HazMat Team, etc.)
- 3) Cordon off the emergency scene to the extent possible using caution tape, cones, drums, etc. Berger personnel will also prevent pedestrians from entering the emergency scene until local authorities arrive on-site.

## 7.7 Update of Emergency Response Plan

The Emergency Response Plan shall be periodically reviewed and amended as necessary to keep it current with new or changing site conditions or information. Additionally, if an emergency occurs on-site, the incident will be reviewed to determine if the response measures employed were effective and make modifications as necessary.

### Route to the Hospital:

Figure 3 is a map indicating the fastest route from the Site to **Brookdale University Medical Center**. Written instructions for accessing the hospital from the site are also provided below.

1. Head **east** on **Dean St** toward **Sackman St**

go 0.1 mi

total 0.1 mi

2. Turn **right** at **Sackman St** go 98 ft

total 0.1 mi

3. Turn **right** at **E New York Ave**

About 1 min

go 0.3 mi

total 0.4 mi

4. Turn **left** at **Rockaway Ave**

About 3 mins

go 1.1 mi

total 1.5 mi

5. Turn **right** at **Hegeman Ave**

About 1 min

go 0.3 mi

total 1.8 mi

6. Turn **right** at **E 98th St** go 0.1 mi

total 1.9 mi

7. Take the 1st **left** onto **Church Ave**

Destination will be on the left

go 256 ft

**total 2.0 mi**

## **8.0 General Requirements**

### **8.1 Training**

Personnel engaging in exclusion zone activities must have completed a minimum of 40 hours of environmental safety and health training with a current 8 hour annual refresher. On-site managers and supervisors directly responsible for, or who supervise, personnel engaging in field activities shall have completed additional training in the supervision of those activities. A site safety meeting shall be conducted prior to the start of on-site activities, and before each day's work, if necessary. Those not having completed the 40-hour training requirement are not to enter the exclusion zone.

### **8.2 Medical Surveillance**

All personnel who are potentially exposed to hazardous substances must be enrolled in the medical surveillance program (MSP) and must have had an up-to-date physical. Those not enrolled in the MSP are not to enter the exclusion zone.

### **8.3 General Safety Rules**

The following is a list of general safety rules in effect at the site.

- a. There will be no eating, drinking, or smoking in the exclusion or contamination reduction zone.
- b. All personnel must pass through the contamination reduction zone to enter or exit the exclusion zone.
- c. At a minimum, an emergency deluge shower/spray is to be located on the clean side of the contamination reduction area (for Level C and above).
- d. All personnel shall wash hands, arms and face before eating, smoking or drinking and at the end of the workday.
- e. All supplied breathing air shall be certified as grade D or better.
- f. Where practical and necessary, all tools/equipment will be sparking proof, explosion resistant, and/or bonded and grounded.
- g. Fire extinguishers will be on-site for use on equipment or small fires only.
- h. An adequate supply of cool drinking water (at least 1 gallon per person) with an ample supply of disposable cups shall be present during each day of site operations, and be readily available to site personnel.

## 8.4 Other Safety Precautions and Hazardous Operations

### Utility Clearance

All utilities will be cleared prior to subsurface exploration. All drilling rigs and backhoe arms will stay a minimum of 10 feet away from overhead power lines.

### Confined Space Operations

No confined space operations are anticipated for the tasks covered under this remedial investigation.

Confined Spaces are identified at: **None**

Confined Space Entry Permits are Required: Yes \_\_\_\_\_ No \_\_\_\_\_ NA **X**

### Site Security

All personnel shall be briefed (at safety meeting and site visit) prior to entering and working at the Site; all work areas and limited entry areas will be barricaded and marked at their perimeter and entry points during active field work.

A Site map indicating all planned work areas is presented as Figure 2 in this report and will be made available to all site personnel.

### Hot Work

Permit-required hot work is not anticipated for this project. However, if such work becomes necessary, the on-site Safety Officer will issue hot work permits.

**Figure 1 – Site Location Map**



FIGURE 1 - SITE LOCATION MAP

2010 BLUESKY  
2010 SANBORN  
2009 GOOGLE

ALC ENVIRONMENTAL, INC  
MARCH 16, 2010



SITE LOCATION

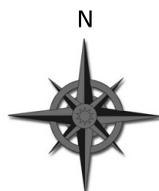
**Figure 2 – Proposed Sample Location Plan**



FIGURE 2 - PROPOSED SAMPLE LOCATION PLAN

2010 BLUESKY  
 2010 SANBORN  
 2009 GOOGLE

ALC ENVIRONMENTAL, INC  
 MARCH 16, 2010



-  PROPOSED SOIL BORING LOCATION
-  PROPOSED SOIL BOING/TEMPORARY WELL POINT LOCATION
-  SITE BOUNDARY

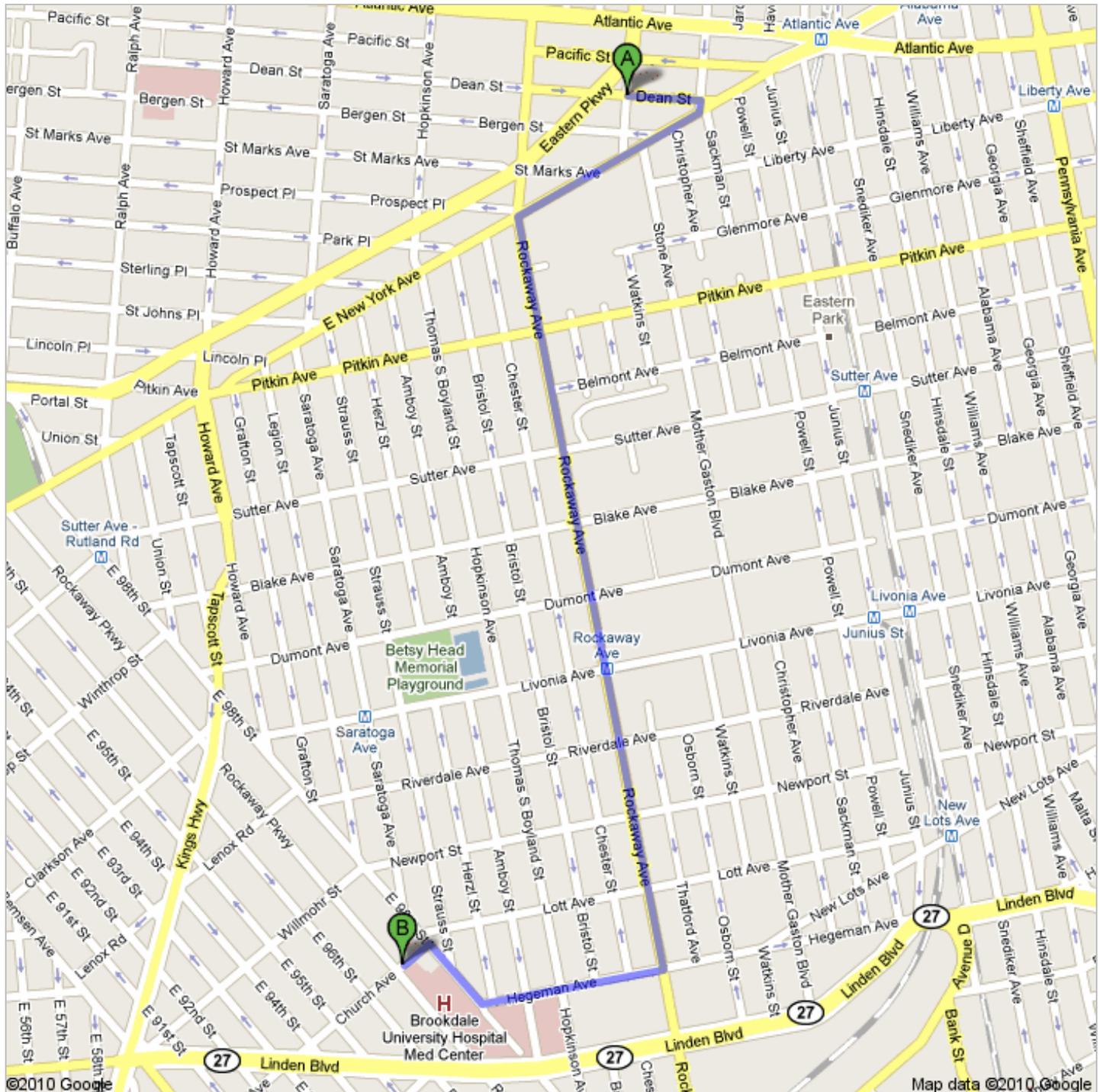
**Figure 3 – Route to Nearest Hospital**

**Directions to Brookdale University Hospital & Medical Center Linden Boulevard at BR: Pre-School Program**

9706 Church Avenue, Brooklyn, NY 11212-3138 - [\(718\) 240-5808](tel:7182405808)

2.0 mi – about 6 mins

**Save trees. Go green!**  
 Download Google Maps on your phone at [google.com/gmm](http://google.com/gmm)

 2390 Dean St, Brooklyn, NY 11233

1. Head <b>east</b> on <b>Dean St</b> toward <b>Sackman St</b>	go 0.1 mi total 0.1 mi
 2. Turn <b>right</b> at <b>Sackman St</b>	go 98 ft total 0.1 mi
 3. Turn <b>right</b> at <b>E New York Ave</b> About 1 min	go 0.3 mi total 0.4 mi
 4. Turn <b>left</b> at <b>Rockaway Ave</b> About 3 mins	go 1.1 mi total 1.5 mi
 5. Turn <b>right</b> at <b>Hegeman Ave</b> About 1 min	go 0.3 mi total 1.8 mi
 6. Turn <b>right</b> at <b>E 98th St</b>	go 0.1 mi total 1.9 mi
 7. Take the 1st <b>left</b> onto <b>Church Ave</b> Destination will be on the left	go 256 ft total 2.0 mi

 Brookdale University Hospital & Medical Center Linden Boulevard at BR: Pre-School Program  
9706 Church Avenue, Brooklyn, NY 11212-3138 - [\(718\) 240-5808](tel:(718)240-5808)

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2010 Google

Directions weren't right? Please find your route on [maps.google.com](http://maps.google.com) and click "Report a problem" at the bottom left.

Appendix E Geophysical Investigation Work Summary and Maps

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Appendix F Soil Boring Geologic Logs

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PROJECT <u>HH- DEAN STREET &amp; MGB</u>			PROJECT NO. <u>170157901</u>		
LOCATION <u>201 MOTHER GASTON BOULEVARD</u>			ELEVATION AND DATUM		
DRILLING AGENCY <u>ADT</u>			DATE STARTED <u>2013-04-19</u>	DATE FINISHED <u>2013-04-19</u>	
DRILLING EQUIPMENT <u>CME LC-55</u>			COMPLETION DEPTH <u>12'</u>	ROCK DEPTH	
SIZE AND TYPE OF BIT <u>3 7/8" TRICONE ROUPE BIT</u>			NO. SAMPLES	DIST.	UNDIST. CORE
CASING <u>4.25" ID USA</u>			WATER LEVEL	FIRST	COMPL. 24 HR.
CASING HAMMER	WEIGHT	DROP	FOREMAN <u>T. SHEERIN</u>		
SAMPLER <u>2' SPLIT SPOON</u>			INSPECTOR <u>D. CARRUS</u>		
SAMPLER HAMMER	WEIGHT	DROP			

SYMBOL	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOG.	TYPE	RECOV. FT.	PENETR. RESIST. BLG/IN.	
0	VEGETATIONAL COVER						
0.00	Brown SILT and c/f SAND to black	1	S-1	SS	0.5'		
0.00	CONCRETE FRAGMENTS						
0.00	/// ? SLAB ?	2					
0.00		3	S-2	SS	1.0'		
0.00	Brown m-f SAND some silt	4					
0.00	BRICK AND CONCRETE	5	S-3	SS	2.1'		
0.00	Brown m-f SAND some silt to peat to debris	6					
0.00	CONCRETE FRAGMENTS	7	S-4	SS	0.5'		
0.00	Brown f- SAND to. silt	8					
0.00	Brown c-m SAND some boulder fragments	9	S-5	SS	2.1'		
0.00	Some slate some gravel	10					
0.00	Brown c-m SAND some boulder fragments	11	S-6	SS	2.1'		
0.00	BOULDER FRAGMENTS	12					
0.00	Brown m-f SAND some boulder fragments	13					
	EOB @ 12'						



Engineering and Environmental Services, Inc.

LOG OF BORING

SG-02

SHEET 1 OF 1

PROJECT H4H-DEAN ST & MGB				PROJECT NO. 170157901			
LOCATION 201 MOTHER GASTON BOULEVARD				ELEVATION AND DATUM			
DRILLING AGENCY ADT		DATE STARTED 2013.04.19		DATE FINISHED 2013.04.19			
DRILLING EQUIPMENT CME LC-55		COMPLETION DEPTH 12'		ROCK DEPTH			
SIZE AND TYPE OF BIT 3 7/8" TRICONE ROLLER BIT		NO. SAMPLES	DIST.	UNDIST.	CORE		
CASING 4.25" USA		WATER LEVEL	FIRST	COMPL.	24 HR.		
CASING HAMMER	WEIGHT	DROP	FOREMAN T. SHEERIN				
SAMPLER 2" SPLIT SPOON			INSPECTOR D. CARRUS				
SAMPLER HAMMER	WEIGHT	DROP					
SYMBOL	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/IN.	
Δ	VEGETATION OVER brown SILT + sand [SM] CONCRETE FRAGMENTS BRICK	1	S-1	S.S	0.5'	0.0	<p>DEAN STREET FENCE LINE</p> <p>MOTHER GASTON BLVD FENCE LINE</p> <p>49'</p> <p>25'</p> <p>SG-02</p> <p>1420 Drilling SG-02</p> <p>No RECOVERY</p>
○		2					
Δ		3	S-2	S.S	0		
▽	down SILT to sand to coal [SM] BRICK	4					
○		5	S-3	S.S	0.5'	0.0	
▽	brown SILT some conc fragments some wood some brick [ML]	6					
○		7	S-4	S.S	1'	0.0	
▽	brown c-m SAND AND BRICK some conc fragments [SP]	8					
○		9	S-5	S.S	1'	0.0	
▽	brown SILT AND c-m SAND some concrete fragments some wood [SM]	10					
○	BRICK	11	S-6	S.S	0		
▽	BLACK c-m SAND some gravel [SP]	12					
?		13					
	EOB @ 12'						



Engineering and Environmental Services, Inc.

LOG OF BORING

SG-03

SHEET 1 OF 1

PROJECT <b>H44- DEAN ST &amp; MGB</b>			PROJECT NO. <b>170157901</b>		
LOCATION <b>201 MOTHER GASTON BOULEVARD</b>			ELEVATION AND DATUM		
DRILLING AGENCY <b>ADT</b>			DATE STARTED <b>2013-04-23</b>	DATE FINISHED <b>2013-04-23</b>	
DRILLING EQUIPMENT <b>CME LC-55</b>			COMPLETION DEPTH <b>12'</b>	ROCK DEPTH	
SIZE AND TYPE OF BIT <b>3 7/8" TRICONE ROLLER BIT</b>			NO. SAMPLES	DIST.	UNDIST. CORE
CASING <b>4.25" HSA</b>			WATER LEVEL	FIRST	COMPL. 24 HR.
CASING HAMMER	WEIGHT	DROP	FOREMAN <b>S. MILLER</b>		
SAMPLER <b>5' MACROCORE</b>			INSPECTOR <b>D. CARRUS</b>		
SAMPLER HAMMER	WEIGHT	DROP			

SYMBOL	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	REC. FT.	PENETR. RESIST. BLOW	
	VEGETATIVE COVER						
○	tan SILT some m-f sand tr. concrete <b>CSB</b>	1					
○	BRICK	2					
○		3	S-1	5' MACROCORE	1.5'		
○		4					
○		5					
○	BRICK CONCRETE FRAGMENTS	5					
○	PEAT <b>CSB</b> CONCRETE FRAGMENTS	6					
○	brown c-f SAND tr. silt tr. gravel <b>CSB</b>	6					
○		7	S-2	5' MACROCORE	1.5'		
○		8					
○		9					
○		10					
○	brown c-f SAND some brick some concrete fragments tr. silt tr. gravel <b>CSB</b>	10					
○		11	S-3	5' MACROCORE	2'		
○		11					
		12					
	EOB @ 12'	12					
		13					
						14:15: VAPOR POINT INSTALLED @ 12'	



Engineering and Environmental Services, Inc.

LOG OF BORING

SB-01

SHEET 1 OF 1

PROJECT <b>444 - DEAN ST &amp; MGB</b>			PROJECT NO. <b>170157901</b>		
LOCATION <b>201 MOTHER GASTON BOULEVARD</b>			ELEVATION AND DATUM		
DRILLING AGENCY <b>ADT</b>			DATE STARTED <b>2013.04.19</b>	DATE FINISHED <b>2013.04.19</b>	
DRILLING EQUIPMENT <b>CME - LC-SS</b>			COMPLETION DEPTH <b>12'</b>	ROCK DEPTH	
SIZE AND TYPE OF BIT <b>3 7/8" tricone rollerbit</b>			NO. SAMPLES	DIST.	UNDIST. CORE
CASING <b>4.25" ID HSA</b>			WATER LEVEL	FIRST	COMPL. 24 HR.
CASING HAMMER	WEIGHT	DROP	FOREMAN <b>T. SHEERIN</b>		
SAMPLER <b>2' SPLIT SPOON</b>			INSPECTOR <b>D. CARRUS</b>		
SAMPLER HAMMER	WEIGHT <b>140 lb</b>	DROP			

SYMBOL	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/BL/IN.	
	VEGETATION COVER	0-1				0.0	
▽	brown f. SAND and SILT to brick to concrete to wood [SM] FILL	1	S-1	SS	2'	0.0	
▽	brown SILT and sand to gravel [SM] FILL	2				0.0	
△	brown SILT to sand to gravel [SM] FILL	3	S-2	SS	2'	0.0	
○	brown SILT to sand to coal [ML] FILL	4				0.0	
○	brown m.f SAND to silt to gravel [SP] FILL	5				0.0	
▽	brown SILT to sand to wood to brick [ML] FILL	6	S-3	SS	2'	0.0	
△	BOULDER FRAGMENTS FILL	7				0.0	
▽	brown SILT to sand to wood [ML] FILL	8				0.0	
○	WOOD AND BROWN SILT organic odor [ML] FILL	9				0.0	
○	brown SILT to sand to coal to wood to concrete to gravel to coal to nylon fabric faint ODOR [ML] FILL	10	S-4	SS	2'	0.0	
○	Brown SILT to sand to brick to gravel [ML] FILL	11				0.0	
○	brown c.m SAND to concrete to boulder frag. [SP] FILL	12	S-5	SS	2'	0.0	
○	brown c.m SAND to concrete to gravel to brick to coal to wood [SP] FILL	13	S-6	SS	2'	0.0	
○	FILL CONCRETE AND BOULDER FRAGMENTS	14				0.0	
	EOB @ 12'						1400 collected VOC grab @ 10-11' other param 10-12'

080983



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LOG OF BORING MW-02 SHEET 1 OF 1

PROJECT <u>H4H-DEAN ST &amp; MGB</u>			PROJECT NO. <u>170157901</u>		
LOCATION <u>201 MOTHER GASTON BOULEVARD</u>			ELEVATION AND DATUM		
DRILLING AGENCY <u>ADT</u>			DATE STARTED <u>2013.04.24</u>		DATE FINISHED <u>2013.04.24</u>
DRILLING EQUIPMENT <u>CME LC-55</u>			COMPLETION DEPTH		ROCK DEPTH
SIZE AND TYPE OF BIT <u>3 7/8" TRICONE POWERBIT</u>			NO. SAMPLES	DIST.	UNDIST. CORE
CASING <u>4.25" ID HSA</u>			WATER LEVEL	FIRST	COMPL. 24 HR.
CASING HAMMER	WEIGHT	DROP	FOREMAN <u>S. MILLER</u>		
SAMPLER <u>5' MACROCORE</u>			INSPECTOR <u>D. CARRUS</u>		
SAMPLER HAMMER	WEIGHT	DROP			

SYMBOL	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	REC. FT.	PENETR. RESIST. BULG. IN.	
	VEGETATION COVER						
Δ	brown m-f SAND to silt to brick ESP	1					
○	brown m-f SAND and concrete fragments to brick to silt ESP	2					
▽		3					
○		4					
○		5					
○	brown m-f SAND some brick to coal to wood to gravel ESP	6				1005 MW-02 BEGINS	
○		7				1010 COLLECTED	
○		8				MW-02-1-2 VOC	
○		9				MW-02-0-2 OTHERS	
○	CONCRETE FRAGMENTS (FILL)	10					
○	brown m-f SAND AND CONCRETE FRAGMENTS to brick to gravel to silt ESP	11				PUSHED 5' MACROCORE 2'	
○	BRICK FRAGMENTS AND DUST	12				1020 COLLECTED	
	EOB @ 12'	13				MW-02-11-12 VOC	
						MW-02-10-12 OTHERS	

080983

PROJECT <b>444-DEAN STREET &amp; MGB</b>			PROJECT NO. <b>170157901</b>			
LOCATION <b>201 MOTHER (GASTON) BOULEVARD</b>			ELEVATION AND DATUM			
DRILLING AGENCY <b>ADT</b>			DATE STARTED <b>2013-04-23</b>		DATE FINISHED <b>2013-04-23</b>	
DRILLING EQUIPMENT <b>CME-LC-55</b>			COMPLETION DEPTH <b>65'</b>		ROCK DEPTH	
SIZE AND TYPE OF BIT <b>3 7/8" TRICONE ROLLER BIT</b>			NO. SAMPLES	DIST.	UNDIST.	CORE
CASING <b>4.25" HSA</b>			WATER LEVEL	FIRST	COMPL.	24 HR.
CASING HAMMER		WEIGHT	DROP	FOREMAN <b>S-MILLER</b>		
SAMPLER <b>2' SPUTSPOON &amp; 5' MACROCORE</b>			INSPECTOR <b>D. CARRUS</b>			
SAMPLER HAMMER		WEIGHT	DROP			

SYMBOL	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLG IN.	
	VEGETATION COVER						
	BROWN SILT some Mf SAND tr. gravel tr. wood [SM]	1					<p>DEAN STREET FENCE LINE 28' MOTHER GASTON BOULEVARD FENCE LINE 65' MW-03 N ↑</p>
		2	S-1	5' MACROCORE	2.5'	0.0	
		3				0.0	
		4				0.0	
		5				0.0	
	BROWN SILT tr. sand tr. coal [ML]	6					0.0
		7					0.0
	BROWN SAND tr. brick [SP]	8	S-2	5' MACROCORE	3'		0.0
		9					
	BROWN SILT and SAND tr. coal tr. brick tr. concrete [SM]	10					5' MACROCORE PUSHED 2'
		11	S-3	5' MACROCORE	1.5'		0.0
		12					0.0
		13					0.0
		14					SWITCH TO 2' SPLIT SPOON SAMPLER

LOG OF BORING NO. MW-03

JOB NO. 170157901

DATE 2013.04.23

SHEET 2 OF 4

Symbol	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLG/IN.	
		14					
△	brown SILT some m-f sand tr. brick tr. wood some conc fragments [SM]	15				0.0	
○		16	S-4	S	2'	0.0	
△		17				0.0	
○	brown SILT some m-f sand tr. wood tr. gravel tr. brick [SM]	18					
△		19					
○		20				0.0	
△		21	S-5	S	1'	0.0	
○	brown SILT and m-f SAND some wood tr. brick tr. concrete tr. coal tr. gravel [SM]	22					
△		23					
○		24					
△		25				0.0	
○		26	S-6	S	0.5'	0.0	
△	brown SILT some m-f sand tr. brick [SM] brown m-f SAND some silt tr. gravel [SM] BOULDER FRAGMENTS	27					
○		28					
△		29					
○		30				0.0	
△		31	S-7	S	1'	0.0	
○		32					



JOB NO. 170157901

LOG OF BORING NO. MW.03

DATE 2013.04.23

SHEET 4 OF 4

Symbol	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLG IN.	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">SAND</p>	tan c-f SAND tr. silt $\llcorner$ SW $\triangleright$	50					
	tan med SAND tr silt $\llcorner$ SW $\triangleright$	51	S-11	S.S	2'	0.0	
		52				0.0	
		53				0.0	
		54					
	tan c-f SAND tr. silt tr. gravel <b>MOIST</b> $\llcorner$ SW $\triangleright$	55				0.0	
		56	S-12	S.S	2'	0.0	
		57				0.0	
		58				0.0	
		59					
	tan c-f SAND tr. silt tr. gravel <b>WET</b> $\llcorner$ SW $\triangleright$	60				0.0	1303 WET @ 61'
		61	S-13	S.S	1'	0.0	
		62				0.0	
	63						
	64						
	65					DRILLED TO 65'	
	EoB @ 65'						

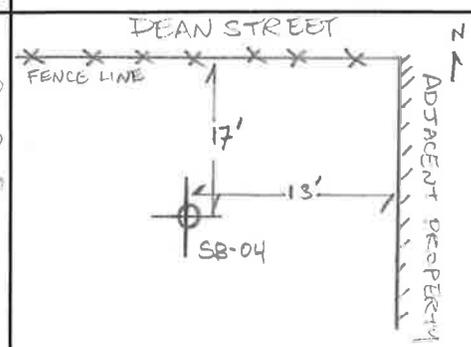


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FINAL

LOG OF BORING SB-04 SHEET 1 OF 1

PROJECT <u>HUH - DEAN ST &amp; MGB</u>			PROJECT NO. <u>170157901</u>			
LOCATION <u>201 MOTHER GASTON BOULEVARD</u>			ELEVATION AND DATUM			
DRILLING AGENCY <u>ADT</u>			DATE STARTED <u>2013.04.24</u>		DATE FINISHED <u>2013.04.24</u>	
DRILLING EQUIPMENT <u>CME LC-55</u>			COMPLETION DEPTH <u>12'</u>		ROCK DEPTH	
SIZE AND TYPE OF BIT <u>TRICONE ROLLER BIT 3 7/8"</u>			NO. SAMPLES	DIST.	UNDIST.	CORE
CASING <u>4.25" ID HSA</u>			WATER LEVEL	FIRST	COMPL.	24 HR.
CASING HAMMER		WEIGHT	DROP	FOREMAN <u>S. MILLER</u>		
SAMPLER <u>5' MACROCORE</u>			INSPECTOR <u>D. CARRUS</u>			
SAMPLER HAMMER		WEIGHT	DROP			

SYMBOL	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLU/IN.	
	VEGETATION COVER						
	black c-f SAND some brick some conc tr. silt [ESP]	1					
		2					
		3	S-1	5' MACROCORE	2'		
		4					
	BLACK m-f SAND and WOOD some debris tr. brick tr. silt [ESP]	5					
		6					
		7	S-2	5' MACROCORE	3'		
	tan m-f SAND AND CONCRETE tr. silt tr. brick [ESP]	8					
		9					
		10					
	tan m-f SAND some concrete tr. brick tr. silt tr. gravel [ESP]	11	S-3	5' MACROCORE	2'		
		12					
	eob @ 12'	13					



SB-04 began @ 0900  
 SB-04\_1-2 VOC @ 0905  
 SB-04\_0-2 all other Params  
 5' MACROCORE DOWN 2'  
 0930 SB-04\_11-12 VOC collected  
 SB-04\_10-12 All other PARAM collected

PROJECT <b>HYH - DEAN ST &amp; MGB</b>				PROJECT NO. <b>170157901</b>			
LOCATION <b>201 MOTHER GASTON BOULEVARD</b>				ELEVATION AND DATUM			
DRILLING AGENCY <b>ADT</b>		DATE STARTED <b>2013.04.19</b>		DATE FINISHED <b>2013.04.19</b>			
DRILLING EQUIPMENT <b>CME LC-55</b>		COMPLETION DEPTH <b>12'</b>		ROCK DEPTH			
SIZE AND TYPE OF BIT <b>4.25" OD HSA</b>				NO. SAMPLES	DIST.	UNDIST.	CORE
CASING				WATER LEVEL	FIRST	COMPL.	24 HR.
CASING HAMMER		WEIGHT	DROP	FOREMAN <b>T. SHEERIN</b>			
SAMPLER				INSPECTOR <b>D. CARRUS</b>			
SAMPLER HAMMER		WEIGHT <b>140 lb</b>	DROP <b>30"</b>				

SYMBOL	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOG.	TYPE	RECOV. FT.	PENETR. RESIST. BLG V.	
	VEG COVER						
	brown SILT some m-f sand (SM)	1	S-1	SS	2'	0.0	<p>DEAN ST FENCE LINE 48' 8.5'</p> <p>MAGNASTON BLVD X FENCE LINE</p>
	BRICK					0.0	
	brown m-f SAND tr. silt (SP)					0.0	
	BRICK AND CONCRETE	2				0.0	
	BRICK					0.0	
	BRICK c-f SAND and SILT (SM)					0.0	
	CONCRETE FRAGMENTS	3	S-2	SS	1.75'	0.0	
	black c-f SAND tr. silt tr. coal (SP)					0.0	
	CONCRETE FRAGMENTS					0.0	
	black c-f SAND and SILT some conc frag (SP)	4				0.0	
	BRICK					0.0	
	brown c-f SAND some silt tr. brick tr. gravel (SP)	5	S-3	SS	2'	0.0	
	black PEAT pt	6				0.2	
	grey m-f SAND tr. silt, brick, gravel (SP)					0.0	
	brown GRAVEL some sand, silt tr. slag (SM)					0.0	
	WOOD	7	S-4	SS	0.5'		
	BRICK						
	brown c-SAND and BRICK tr. silt (SP)	8				0.0	
	grey SILT some c-SAND (SM)						
	PEAT pt	9	S-5	SS	1'	0.0	
	brown f-SAND and SILT (SM)						
	CONCRETE						
	brown m-f SAND and SILT some BRICK, conc (SM)	10				0.0	
		11	S-6	SS	2'	0.0	
						0.0	
						0.0	
		12				0.0	
	eob @ 12 ftbg					eob @ 12 ftbg	
		13					



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LOG OF BORING SB-06 SHEET 1 OF 1

PROJECT <u>H44- DEAN STREET &amp; MGB</u>			PROJECT NO. <u>170157901</u>		
LOCATION <u>201 MOTHER GASTON BOULEVARD</u>			ELEVATION AND DATUM		
DRILLING AGENCY <u>ADT</u>		DATE STARTED <u>2013-04-24</u>		DATE FINISHED <u>2013-04-24</u>	
DRILLING EQUIPMENT <u>CME LC-55</u>		COMPLETION DEPTH <u>12'</u>		ROCK DEPTH <u>N/A</u>	
SIZE AND TYPE OF BIT <u>3 7/8" Tricone roller bit</u>			NO. SAMPLES	DIST.	UNDIST. CORE
CASING <u>4.25" HSA</u>			WATER LEVEL	FIRST	COMPL. 24 HR.
CASING HAMMER	WEIGHT	DROP	FOREMAN <u>S. MILLER</u>		
SAMPLER <u>5' MACROCORE</u>			INSPECTOR <u>D. CARRUS</u>		
SAMPLER HAMMER	WEIGHT	DROP			

SYMBOL	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	REC. FT.	PENETR. RESIST. BULK	
	VEGETATION COVER						
0' Δ	brown m-f SAND to silt to gravel to brick to coal [ESP]	1	S-1	5' MACROCORE	0.0	0.0	
Δ		2			0.0		
Δ		3			0.0		
Δ		4			0.0		
Δ		5			0.0		
Δ	Brown SILT to sand to coal to gravel to concrete MOIST [ML]	6	S-2	5' MACROCORE	0.0	0.0	1030 BEGN DRILLING SB-06 1035 COLLECTED SB-06-0-2: OTHER PARAM SB-06-1-2: VOC
Δ		7			0.0		
Δ		8			0.0		
Δ	grey c-f SAND some gravel to silt [ESP]	9	S-3	5' MACROCORE	0.0	0.0	5' MACROCORE PUSHED 2' to 12'
Δ		10			0.0		
Δ		11			0.0		
Δ	EOB @ 12'	12	5' MACROCORE	2'	0.0	0.0	1055 COLLECTED SB-06-11-12 VOC SB-06-10-12 OTHERS
Δ		13			0.0		

PROJECT <b>H4H- DEAN ST &amp; MGB</b>			PROJECT NO. <b>17015790</b>		
LOCATION <b>201 MOTHER GASTON BLVD</b>			ELEVATION AND DATUM		
DRILLING AGENCY <b>ADT</b>		DATE STARTED <b>2013.04.24</b>		DATE FINISHED	
DRILLING EQUIPMENT <b>CME LC-55</b>			COMPLETION DEPTH <b>12'</b>		ROCK DEPTH
SIZE AND TYPE OF BIT <b>3 7/8" tricone rollerbit</b>			NO. SAMPLES	DIST.	UNDIST. CORE
CASING <b>4.25" USA</b>			WATER LEVEL	FIRST	COMPL. 24 HR.
CASING HAMMER	WEIGHT	DROP	FOREMAN <b>S. MILLER</b>		
SAMPLER <b>5' MACROCORE</b>			INSPECTOR <b>D. CARRUS</b>		
SAMPLER HAMMER	WEIGHT	DROP			

Symbol	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLU/IN.	
	WOOD DEBRIS COVER						<p>DEAN STREET FENCE LINE 68' MW-07 16' WESTERN ADJ PROP</p> <p>0945 Drilling of MW-07 BEGINS</p> <p>0950 VOC collected MW-07-1-2 MW-07-0-2 other PARAM</p> <p>PUSH 5' MACROCORE 2'</p> <p>0957 Collect MW-07-11-12 VOC MW-07-10-12 others</p>
▽	BROWN m.f SAND AND CONCRETE DEBRIS [ESP]	1			0.0		
▽	BROWN m.f SAND some silt to brick fr. coal fr. concrete [SM]	2			0.0		
▽		3	S-1	5' MACROCORE	4'	0.0	
▽		4			0.0		
▽	BROWN SILT tr. clay tr. sand MOIST [ML]	5			0.0		
▽	BRICK AND GRAVEL [GP]	6			0.0		
▽	BROWN m.f SAND tr. gravel tr. concrete [SP]	7			0.0		
▽		8	S-2	5' MACROCORE	4'	0.0	
▽		9			0.0		
▽	BROWN SILT AND CONCRETE FRAGMENTS tr. sand tr. gravel MOIST [ML]	10			0.0		
▽		11	S-3	5' MACROCORE	1'	0.0	
	EOR @ 12'	12					
		13					

Appendix G Groundwater and Soil Vapor Sampling Logs

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# WELL CONSTRUCTION SUMMARY

Well No.

MW-03

PROJECT H4H - Dean St. & MGB			PROJECT NO. 170157901					
LOCATION 201 Mother Gaston Boulevard			ELEVATION AND DATUM					
DRILLING AGENCY ADT			DATE STARTED 4/23/2013		DATE FINISHED 4/23/2013			
DRILLING EQUIPMENT CME LC-55			DRILLER S. Miller					
SIZE AND TYPE OF BIT 3 7/8" Tricone rollerbit			INSPECTOR D. Carrus					
METHOD OF INSTALLATION Boring was advanced to 65 feet using a tri-cone 3-7/8" roller bit. A 1-inch diameter, 5-foot pre-packed well and six, 10-foot long PVC risers were installed. The total depth of the well below grade is 65 feet. The void space around the screen was backfilled with silica sand. An approximate 2-foot thick bentonite seal was installed above the clean sand. The remaining space was filled with sand and soil cuttings.								
METHOD OF WELL DEVELOPMENT								
TYPE OF CASING PVC		DIAMETER 1"		TYPE OF BACKFILL MATERIAL Sand and soil cuttings				
TYPE OF SCREEN 10-slot pre-packed screen with #1 sand		DIAMETER 1"		TYPE OF SEAL MATERIAL Bentonite				
BOREHOLE DIAMETER 6"			TYPE OF FILTER MATERIAL Sand					
TOP OF CASING	ELEVATION	DEPTH (ft)			SUMMARY SOIL CLASSIFICATION Vegetation cover	DEPTH (FT) 0.0		
TOP OF SEAL	ELEVATION	DEPTH (ft)						
TOP OF FILTER	ELEVATION	DEPTH (ft)			FILL	36.0		
TOP OF SCREEN	ELEVATION	DEPTH (ft)						
BOTTOM OF BORING	ELEVATION	DEPTH (ft)						
SCREEN LENGTH			5 ft					
SLOT SIZE			10		Sand	65.0		
<b>GROUNDWATER ELEVATIONS</b>								
ELEVATION	DATE	DEPTH TO WATER					Sand Pack	58.0
	4/23/2013	57.2						
ELEVATION	DATE	DEPTH TO WATER						
	4/25/2013	57.2						
ELEVATION	DATE	DEPTH TO WATER						
	4/26/2013	57.2						
ELEVATION	DATE	DEPTH TO WATER						
ELEVATION	DATE	DEPTH TO WATER						
ELEVATION	DATE	DEPTH TO WATER						
<b>LANGAN Engineering and Environmental Services, Inc.</b> 21 Penn Plaza, 360 West 31st Street, Suite 900, New York, New York 10001-2727								



# SOIL VAPOR SAMPLING LOG SHEET

Sample No. SG-01

PROJECT: <u>H44-MGB &amp; DEAN ST</u>		PROJECT NO.: <u>170157901</u>																							
LOCATION: <u>201 MOTHER GASTON BLVD</u>		SURFACE ELEVATION AND DATUM:																							
DRILLING FIRM OR LANGAN INSTALLER: <u>ADT</u>		DATE STARTED: <u>2013-04-23</u>	DATE FINISHED: <u>2013-04-23</u>																						
INSTALLATION EQUIPMENT: <u>CME LC-55</u>		INSTALLATION FOREMAN: <u>S. MILLER</u>																							
TYPE OF SAMPLING DEVICE: <u>6L SUMMA CANISTER</u>		INSPECTOR: <u>D. CARPUS</u>																							
POTENTIAL SAMPLE INTERFERENCES:		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): <u>0.00" PRECIP</u> <u>63°F</u> <u>30.44" PRESSURE</u> <u>1-6 mph WIND VARIABLE</u>																							
METHOD OF INSTALLATION AND PURGING: <u>INSTALL W/ CME LC-55</u> <u>PURGE W/ SKC LOW FLOW SAMPLING PUMP @ 0.2 L/MIN</u> <u>SAMPLE TYPE = 2 HOUR SOB SURFACE SOIL VAPOR SAMPLE</u>																									
TUBING TYPE/DIAMETER: <u>0.25" ID LDPE</u>		TYPE OF MATERIAL ABOVE SEAL: <u>SAND</u>																							
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: <u>STAINLESS STEEL SCREEN / 6" / 0.25"</u>		SEAL MATERIAL (Bentonite, beeswax, modeling clay, etc.): <u>BENTONITE</u>																							
BOREHOLE DIAMETER: <u>6"</u>		FILTER PACK MATERIAL (Sand or Glass Beads): <u>SAND</u>																							
PURGE VOLUME: <u>1.6 L</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th>DEPTH (FEET FROM SURFACE)</th> <th rowspan="2">NOTES</th> </tr> <tr> <th>SURFACE</th> <th>SURFACE</th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">SAND</td> <td style="text-align: center;">SAND</td> <td style="text-align: center;">0'</td> <td></td> </tr> <tr> <td style="text-align: center;">BENTONITE</td> <td style="text-align: center;">BENTONITE</td> <td style="text-align: center;">8.5'</td> <td style="text-align: center;">Top of Seal</td> </tr> <tr> <td style="text-align: center;">SAND</td> <td style="text-align: center;">SAND</td> <td style="text-align: center;">10.5'</td> <td style="text-align: center;">Top of Pack</td> </tr> <tr> <td style="text-align: center;">SAND</td> <td style="text-align: center;">SAND</td> <td style="text-align: center;">12'</td> <td></td> </tr> </tbody> </table>	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE	SURFACE		SAND	SAND	0'		BENTONITE	BENTONITE	8.5'	Top of Seal	SAND	SAND	10.5'	Top of Pack	SAND	SAND	12'	
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)			DEPTH (FEET FROM SURFACE)	NOTES																					
SURFACE	SURFACE																								
SAND	SAND		0'																						
BENTONITE	BENTONITE		8.5'	Top of Seal																					
SAND	SAND		10.5'	Top of Pack																					
SAND	SAND		12'																						
PID AFTER PURGE: <u>0.0</u>																									
SAMPLE START TIME: <u>1042</u>																									
SAMPLE STOP TIME: <u>1240</u>																									
TOTAL SAMPLE TIME (MIN): <u>118</u>																									
FLOW RATE (L/MIN): <u>0.0422</u>																									
VOLUME OF SAMPLE (LITERS): <u>4.97 L</u>																									
PID AFTER SAMPLE: <u>0.0</u>																									
SAMPLE MOISTURE CONTENT:																									
CAN SERIAL NUMBER: <u>Y-61 (SN 10014)</u>																									
CAN START VACUUM PRESS.: <u>&lt;-30"</u>																									
CAN STOP VACUUM PRESS.: <u>-10"</u>																									
<b>SAMPLE LOCATION SKETCH</b>																									
<p style="font-size: small;">A hand-drawn sketch showing the intersection of DEAN ST and MOTHER GASTON BLVD. A fence line runs along both streets. A grid is drawn with a sample point labeled 'SG-01' located 8.5 feet from the intersection and 28 feet from the fence line. A north arrow points upwards.</p>																									

\*\*Include approx. scale, north arrow, distance from landmarks

**SOIL VAPOR SAMPLING LOG SHEET**

Sample No. SG-02

PROJECT: <b>HYH - MGB &amp; DEAN ST</b>	PROJECT NO.: <b>170157901</b>
LOCATION: <b>201 MOTHER GASTON BLVD</b>	SURFACE ELEVATION AND DATUM:
DRILLING FIRM OR LANGAN INSTALLER: <b>ADT</b>	DATE STARTED: <b>2013-04-23</b> DATE FINISHED: <b>2013-04-23</b>
INSTALLATION EQUIPMENT: <b>CME LC-55</b>	INSTALLATION FOREMAN: <b>S. MILLER</b>
TYPE OF SAMPLING DEVICE: <b>6L SUMMA CANISTER</b>	INSPECTOR: <b>D. CARRUS</b>
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): <b>0.00" PRECIP 63°F 30.44 in pressure 1-6 mph WIND VARIABLE</b>

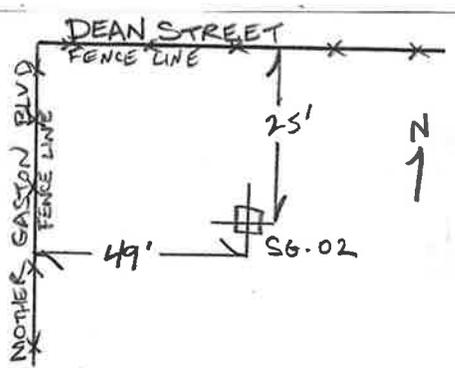
METHOD OF INSTALLATION AND PURGING:  
**INSTALL WITH CME LC-55  
 PURGE WITH SKC LOW FLOW SAMPLING PUMP @ 0.2L/MIN  
 SAMPLE TYPE = 2 hour SUB-SURFACE SOIL VAPOR SAMPLE**

TUBING TYPE/DIAMETER: <b>0.25" ID LDPE</b>	TYPE OF MATERIAL ABOVE SEAL: <b>SAND</b>
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: <b>STAINLESS STEEL SCREEN / 6" / 0.25"</b>	SEAL MATERIAL (Bentonite, beeswax, modeling clay, etc.): <b>BENTONITE</b>
BOREHOLE DIAMETER: <b>6"</b>	FILTER PACK MATERIAL (Sand or Glass Beads): <b>SAND</b>

PURGE VOLUME:	<b>1.4L</b>
PID AFTER PURGE:	<b>0.0</b>
SAMPLE START TIME:	<b>0948 20130423</b>
SAMPLE STOP TIME:	<b>1148 20130423</b>
TOTAL SAMPLE TIME (MIN):	<b>120</b>
FLOW RATE (L/MIN):	<b>0.0441</b>
VOLUME OF SAMPLE (LITERS):	<b>5.292</b>
PID AFTER SAMPLE:	<b>0.0</b>
SAMPLE MOISTURE CONTENT:	
CAN SERIAL NUMBER:	<b>7-62 (10720)</b>
CAN START VACUUM PRESS.:	<b>-29" Hg</b>
CAN STOP VACUUM PRESS.:	<b>0" Hg</b>

IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
SURFACE	0'	
SURFACE	8.5'	Top of Seal
SURFACE	10.5'	Top of Pack
SURFACE	12'	

**SAMPLE LOCATION SKETCH**



\*\*Include approx. scale, north arrow, distance from landmarks

# SOIL VAPOR SAMPLING LOG SHEET

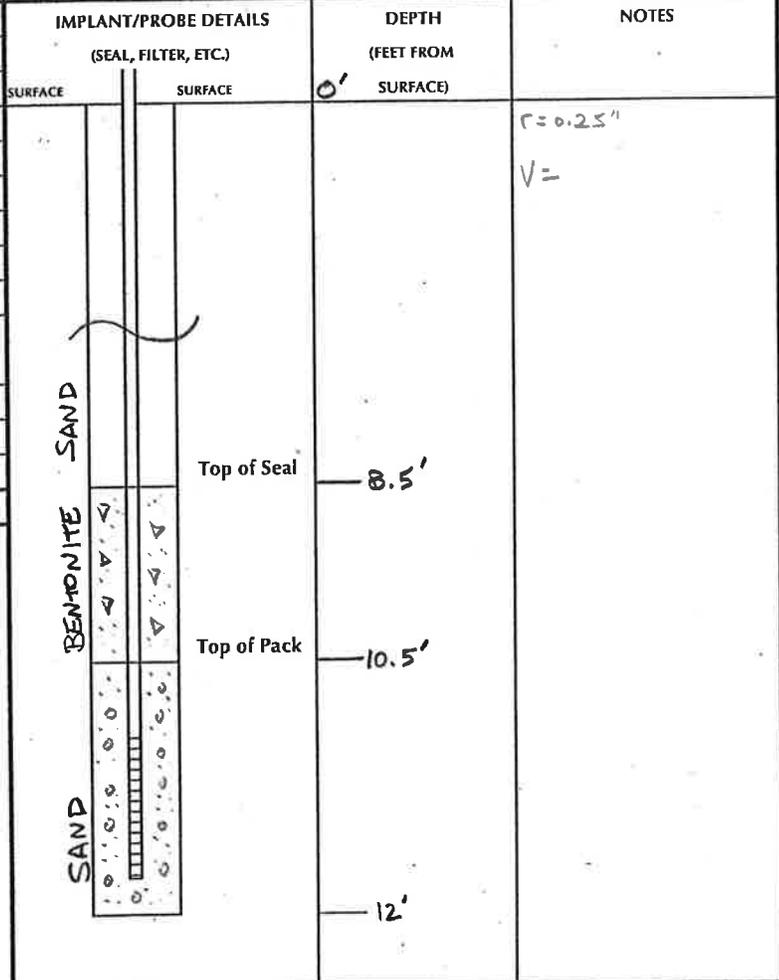
Sample No. SG-03

PROJECT: <b>HYH - MGB &amp; DEAN ST</b>	PROJECT NO.: <b>170157901</b>
LOCATION: <b>201 MOTHER GASTON BLVD</b>	SURFACE ELEVATION AND DATUM:
DRILLING FIRM OR LANGAN INSTALLER: <b>ADT</b>	DATE STARTED: <b>2013-04-24</b> DATE FINISHED: <b>2013-04-24</b>
INSTALLATION EQUIPMENT: <b>CME LC-55</b>	INSTALLATION FOREMAN: <b>S. MILLER</b>
TYPE OF SAMPLING DEVICE: <b>6L SUMMA CANISTER</b>	INSPECTOR: <b>D. CARBUS</b>
POTENTIAL SAMPLE INTERFERENCES:	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): <b>0" PRECIP 65°F 29.97" PRESSURE 5-10 mph SW wind</b>

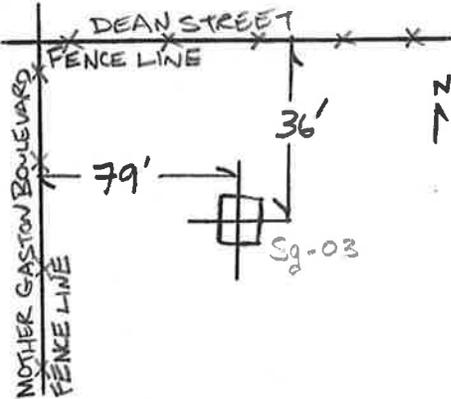
METHOD OF INSTALLATION AND PURGING:  
INSTALL WITH CME LC-55  
PURGE WITH SKC LOW FLOW SAMPLING PUMP @ 0.2 L/min  
SAMPLE TYPE = 2 HOUR SUB-SURFACE SOIL VAPOR SAMPLE

TUBING TYPE/DIAMETER: <b>0.25" ID LDPE</b>	TYPE OF MATERIAL ABOVE SEAL: <b>SAND</b>
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: <b>STAINLESS STEEL SCREEN / 6" / 0.25"</b>	SEAL MATERIAL (Bentonite, beeswax, modeling clay, etc.): <b>BENTONITE</b>
BOREHOLE DIAMETER: <b>6"</b>	FILTER PACK MATERIAL (Sand or Glass Beads): <b>SAND</b>

PURGE VOLUME:	1.4 L
PID AFTER PURGE:	0.0
SAMPLE START TIME:	0718 20130424
SAMPLE STOP TIME:	0922 20130424
TOTAL SAMPLE TIME (MIN):	124 min
FLOW RATE (L/MIN):	0.0449
VOLUME OF SAMPLE (LITERS):	5.5676
PID AFTER SAMPLE:	0.0
SAMPLE MOISTURE CONTENT:	
CAN SERIAL NUMBER:	4-56 (SN 5391)
CAN START VACUUM PRESS.:	< -30" Hg
CAN STOP VACUUM PRESS.:	-6" Hg



**SAMPLE LOCATION SKETCH**



\*\*Include approx. scale, north arrow, distance from landmarks

Appendix H Laboratory Data Deliverables

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# Technical Report

prepared for:

**Langan Engineering & Environmental Services (NYC)**

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

**Attention: Daniel Carrus**

Report Date: 04/26/2013

**Client Project ID: 170157901 (H4H)**

York Project (SDG) No.: 13D0745

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 04/26/2013  
Client Project ID: 170157901 (H4H)  
York Project (SDG) No.: 13D0745

**Langan Engineering & Environmental Services (NYC)**  
21 Penn Plaza, 360 West 31st Street  
New York NY, 10001  
Attention: Daniel Carrus

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 19, 2013 and listed below. The project was identified as your project: **170157901 (H4H)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13D0745-01	SB-01_0-2	Soil	04/19/2013	04/19/2013
13D0745-02	SB-01_1-2	Soil	04/19/2013	04/19/2013
13D0745-03	SB-01_6-7	Soil	04/19/2013	04/19/2013
13D0745-04	SB-05_0-2	Soil	04/19/2013	04/19/2013
13D0745-05	SB-05_1-2	Soil	04/19/2013	04/19/2013
13D0745-06	SB-05_10-12	Soil	04/19/2013	04/19/2013
13D0745-07	SB-01_10-12	Soil	04/19/2013	04/19/2013
13D0745-08	SB-05_11-12	Soil	04/19/2013	04/19/2013
13D0745-09	SB-01_10-11	Soil	04/19/2013	04/19/2013

**General Notes for York Project (SDG) No.: 13D0745**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 04/26/2013

**YORK**



## Sample Information

**Client Sample ID:** SB-01\_0-2

**York Sample ID:** 13D0745-01

York Project (SDG) No.  
13D0745

Client Project ID  
170157901 (H4H)

Matrix  
Soil

Collection Date/Time  
April 19, 2013 1:15 pm

Date Received  
04/19/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	66.0	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	119	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	57.6	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	112	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	141	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	92.6	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	149	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	128	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	153	365	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	80.6	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	93.7	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	98.4	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	60.2	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	140	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	69.3	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	159	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	49.6	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	79.1	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	95.5	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	181	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	230	365	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	87.9	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	123	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.4	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	107	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	75.5	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	68.5	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
83-32-9	Acenaphthene	ND		ug/kg dry	66.0	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	87.5	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
120-12-7	Anthracene	ND		ug/kg dry	99.5	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
56-55-3	<b>Benzo(a)anthracene</b>	<b>169</b>	J	ug/kg dry	68.2	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
50-32-8	<b>Benzo(a)pyrene</b>	<b>218</b>		ug/kg dry	72.2	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>174</b>	J	ug/kg dry	153	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR



## Sample Information

**Client Sample ID:** SB-01\_0-2

**York Sample ID:** 13D0745-01

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:15 pm	<u>Date Received</u> 04/19/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>133</b>	J	ug/kg dry	60.5	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	182	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
65-85-0	Benzoic acid	ND		ug/kg dry	125	365	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	182	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	101	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	62.7	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	93.0	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	64.2	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	126	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
218-01-9	<b>Chrysene</b>	<b>182</b>		ug/kg dry	83.8	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	73.3	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	84.9	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	114	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	81.3	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	74.0	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	182	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
206-44-0	<b>Fluoranthene</b>	<b>391</b>		ug/kg dry	107	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
86-73-7	Fluorene	ND		ug/kg dry	87.5	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	108	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	61.6	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	136	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	52.1	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>122</b>	J	ug/kg dry	83.1	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
78-59-1	Isophorone	ND		ug/kg dry	62.7	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
91-20-3	Naphthalene	ND		ug/kg dry	44.8	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	53.6	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	60.9	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	82.4	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	137	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
85-01-8	<b>Phenanthrene</b>	<b>220</b>		ug/kg dry	95.1	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
108-95-2	Phenol	ND		ug/kg dry	78.7	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR
129-00-0	<b>Pyrene</b>	<b>290</b>		ug/kg dry	74.4	182	1	EPA SW846-8270C	04/23/2013 06:29	04/25/2013 14:05	SR



### Sample Information

**Client Sample ID:** SB-01\_0-2

**York Sample ID:** 13D0745-01

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:15 pm	<u>Date Received</u> 04/19/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
50-29-3	<b>4,4'-DDT</b>	<b>3.70</b>		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
309-00-2	Aldrin	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	18.6	18.6	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:09	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	18.6	18.6	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:09	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	18.6	18.6	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:09	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	18.6	18.6	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:09	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	18.6	18.6	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:09	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	18.6	18.6	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:09	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	18.6	18.6	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:09	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
57-74-9	Chlordane, total	ND		ug/kg dry	7.22	7.22	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
72-20-8	Endrin	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.80	1.80	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.02	9.02	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW
1336-36-3	Total PCBs	ND		ug/kg dry	7.44	18.6	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:09	JW
8001-35-2	Toxaphene	ND		ug/kg dry	91.3	91.3	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:06	JW



### Sample Information

**Client Sample ID:** SB-01\_0-2

**York Sample ID:** 13D0745-01

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:15 pm	<u>Date Received</u> 04/19/2013
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**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7130		mg/kg dry	1.12	2.19	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-36-0	Antimony	ND		mg/kg dry	0.241	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-38-2	Arsenic	2.55		mg/kg dry	0.372	1.09	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-39-3	Barium	100		mg/kg dry	0.142	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.109	0.109	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-43-9	Cadmium	3.52		mg/kg dry	0.109	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-70-2	Calcium	2360		mg/kg dry	0.044	5.47	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-47-3	Chromium	21.0		mg/kg dry	0.131	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-48-4	Cobalt	7.42		mg/kg dry	0.087	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-50-8	Copper	26.1		mg/kg dry	0.131	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7439-89-6	Iron	16000		mg/kg dry	0.711	2.19	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7439-92-1	Lead	75.9		mg/kg dry	0.186	0.328	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7439-95-4	Magnesium	2380		mg/kg dry	0.492	5.47	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7439-96-5	Manganese	287		mg/kg dry	0.120	1.09	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-02-0	Nickel	10.7		mg/kg dry	0.142	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-09-7	Potassium	1460		mg/kg dry	3.70	10.9	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7782-49-2	Selenium	2.15		mg/kg dry	0.547	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-22-4	Silver	ND		mg/kg dry	0.109	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-23-5	Sodium	484		mg/kg dry	5.76	10.9	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-28-0	Thallium	ND		mg/kg dry	0.350	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-62-2	Vanadium	24.1		mg/kg dry	0.120	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW
7440-66-6	Zinc	105		mg/kg dry	0.098	0.547	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:31	MW

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.103	0.109	1	EPA SW846-7471	04/23/2013 09:16	04/23/2013 17:03	AA



### Sample Information

**Client Sample ID:** SB-01\_0-2

**York Sample ID:** 13D0745-01

York Project (SDG) No. 13D0745      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 19, 2013 1:15 pm      Date Received 04/19/2013

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.4		%	0.100	0.100	1	SM 2540G	04/23/2013 13:31	04/23/2013 13:31	ALD

### Sample Information

**Client Sample ID:** SB-01\_1-2

**York Sample ID:** 13D0745-02

York Project (SDG) No. 13D0745      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 19, 2013 1:15 pm      Date Received 04/19/2013

**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg wet	2.3	9.3	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg wet	2.3	9.3	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
78-93-3	2-Butanone	ND		ug/kg wet	2.3	9.3	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
591-78-6	2-Hexanone	ND		ug/kg wet	2.3	9.3	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
67-64-1	Acetone	5.5	J	ug/kg wet	2.3	9.3	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
71-43-2	Benzene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-27-4	Bromodichloromethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-25-2	Bromoform	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
74-83-9	Bromomethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-15-0	Carbon disulfide	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
56-23-5	Carbon tetrachloride	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK



### Sample Information

**Client Sample ID:** SB-01\_1-2

**York Sample ID:** 13D0745-02

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:15 pm	<u>Date Received</u> 04/19/2013
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### Volatile Organics, TCL (Target Compound List)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-00-3	Chloroethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
67-66-3	Chloroform	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
74-87-3	Chloromethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
124-48-1	Dibromochloromethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
100-41-4	Ethyl Benzene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-09-2	<b>Methylene chloride</b>	<b>II</b>		ug/kg wet	2.3	9.3	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
91-20-3	Naphthalene	ND		ug/kg wet	2.3	9.3	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
104-51-8	n-Butylbenzene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
103-65-1	n-Propylbenzene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
95-47-6	o-Xylene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg wet	2.3	9.3	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
135-98-8	sec-Butylbenzene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
100-42-5	Styrene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
98-06-6	tert-Butylbenzene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
127-18-4	Tetrachloroethylene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
108-88-3	Toluene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
79-01-6	Trichloroethylene	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
75-01-4	Vinyl Chloride	ND		ug/kg wet	2.3	4.7	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK
1330-20-7	Xylenes, Total	ND		ug/kg wet	2.3	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:16	BK

### Sample Information

**Client Sample ID:** SB-01\_6-7

**York Sample ID:** 13D0745-03

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:30 pm	<u>Date Received</u> 04/19/2013
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### Sample Information

**Client Sample ID:** SB-01\_6-7

**York Sample ID:** 13D0745-03

York Project (SDG) No.  
13D0745

Client Project ID  
170157901 (H4H)

Matrix  
Soil

Collection Date/Time  
April 19, 2013 1:30 pm

Date Received  
04/19/2013

**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
67-64-1	<b>Acetone</b>	<b>11</b>		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
71-43-2	Benzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK



### Sample Information

**Client Sample ID:** SB-01\_6-7

**York Sample ID:** 13D0745-03

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:30 pm	<u>Date Received</u> 04/19/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	13		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
91-20-3	Naphthalene	10	J	ug/kg dry	2.7	11	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
100-42-5	Styrene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
108-88-3	Toluene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.7	16	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 13:51	BK

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	357	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	645	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	312	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	608	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	766	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	501	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	805	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	691	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	829	1970	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	436	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	507	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	533	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	326	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR



## Sample Information

**Client Sample ID:** SB-01\_6-7

**York Sample ID:** 13D0745-03

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:30 pm	<u>Date Received</u> 04/19/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	758	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	375	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	860	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	268	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	428	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	517	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	981	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	1240	1970	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	476	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	665	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	257	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	578	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	408	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	371	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
83-32-9	<b>Acenaphthene</b>	<b>472</b>	J	ug/kg dry	357	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	474	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
120-12-7	<b>Anthracene</b>	<b>1170</b>		ug/kg dry	539	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
56-55-3	<b>Benzo(a)anthracene</b>	<b>2740</b>		ug/kg dry	369	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
50-32-8	<b>Benzo(a)pyrene</b>	<b>2460</b>		ug/kg dry	391	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>2180</b>		ug/kg dry	827	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>1340</b>		ug/kg dry	328	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
207-08-9	<b>Benzo(k)fluoranthene</b>	<b>2310</b>		ug/kg dry	987	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
65-85-0	Benzoic acid	ND		ug/kg dry	675	1970	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	987	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	545	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	339	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	503	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	347	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	681	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
218-01-9	Chrysene	ND		ug/kg dry	454	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
53-70-3	<b>Dibenzo(a,h)anthracene</b>	<b>718</b>	J	ug/kg dry	397	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
132-64-9	<b>Dibenzofuran</b>	<b>641</b>	J	ug/kg dry	460	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	620	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR



### Sample Information

**Client Sample ID:** SB-01\_6-7

**York Sample ID:** 13D0745-03

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:30 pm	<u>Date Received</u> 04/19/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		ug/kg dry	440	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	401	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	987	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
206-44-0	<b>Fluoranthene</b>	<b>6780</b>		ug/kg dry	578	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
86-73-7	<b>Fluorene</b>	<b>675</b>	J	ug/kg dry	474	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	582	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	334	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	734	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	282	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
193-39-5	<b>Indeno(1,2,3-cd)pyrene</b>	<b>1220</b>		ug/kg dry	450	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
78-59-1	Isophorone	ND		ug/kg dry	339	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
91-20-3	<b>Naphthalene</b>	<b>708</b>	J	ug/kg dry	243	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	290	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	330	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	446	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	744	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
85-01-8	<b>Phenanthrene</b>	<b>7060</b>		ug/kg dry	515	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
108-95-2	Phenol	ND		ug/kg dry	426	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR
129-00-0	<b>Pyrene</b>	<b>9640</b>		ug/kg dry	403	987	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:07	SR

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	<b>4,4'-DDD</b>	<b>4.96</b>		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
72-55-9	<b>4,4'-DDE</b>	<b>2.59</b>		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
50-29-3	<b>4,4'-DDT</b>	<b>10.5</b>		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
309-00-2	Aldrin	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:29	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:29	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:29	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:29	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:29	JW
11097-69-1	<b>Aroclor 1254</b>	<b>42.2</b>		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:29	JW



## Sample Information

**Client Sample ID:** SB-01\_6-7

**York Sample ID:** 13D0745-03

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:30 pm	<u>Date Received</u> 04/19/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		ug/kg dry	20.1	20.1	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:29	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
57-74-9	Chlordane, total	ND		ug/kg dry	7.81	7.81	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
72-20-8	Endrin	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	1.95	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.77	9.77	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW
1336-36-3	<b>Total PCBs</b>	<b>42.2</b>		ug/kg dry	8.05	20.1	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:29	JW
8001-35-2	Toxaphene	ND		ug/kg dry	98.9	98.9	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:22	JW

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>6680</b>		mg/kg dry	1.21	2.37	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-36-0	<b>Antimony</b>	<b>0.636</b>		mg/kg dry	0.260	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-38-2	<b>Arsenic</b>	<b>4.28</b>		mg/kg dry	0.403	1.18	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-39-3	<b>Barium</b>	<b>281</b>		mg/kg dry	0.154	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.118	0.118	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-43-9	<b>Cadmium</b>	<b>2.39</b>		mg/kg dry	0.118	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-70-2	<b>Calcium</b>	<b>47400</b>		mg/kg dry	0.047	5.92	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-47-3	<b>Chromium</b>	<b>19.2</b>		mg/kg dry	0.142	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-48-4	<b>Cobalt</b>	<b>6.68</b>		mg/kg dry	0.095	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-50-8	<b>Copper</b>	<b>95.9</b>		mg/kg dry	0.142	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7439-89-6	<b>Iron</b>	<b>16600</b>		mg/kg dry	0.770	2.37	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7439-92-1	<b>Lead</b>	<b>312</b>		mg/kg dry	0.201	0.355	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7439-95-4	<b>Magnesium</b>	<b>4040</b>		mg/kg dry	0.533	5.92	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW



### Sample Information

**Client Sample ID:** SB-01\_6-7

**York Sample ID:** 13D0745-03

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 1:30 pm	<u>Date Received</u> 04/19/2013
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**Metals, Target Analyte**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	268		mg/kg dry	0.130	1.18	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-02-0	Nickel	11.7		mg/kg dry	0.154	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-09-7	Potassium	1370		mg/kg dry	4.00	11.8	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7782-49-2	Selenium	2.32		mg/kg dry	0.592	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-22-4	Silver	ND		mg/kg dry	0.118	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-23-5	Sodium	690		mg/kg dry	6.24	11.8	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-28-0	Thallium	ND		mg/kg dry	0.379	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-62-2	Vanadium	19.2		mg/kg dry	0.130	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW
7440-66-6	Zinc	368		mg/kg dry	0.107	0.592	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:36	MW

**Mercury by 7470/7471**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.111	0.118	1	EPA SW846-7471	04/23/2013 09:16	04/23/2013 17:03	AA

**Total Solids**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.5		%	0.100	0.100	1	SM 2540G	04/23/2013 13:31	04/23/2013 13:31	ALD

### Sample Information

**Client Sample ID:** SB-05\_0-2

**York Sample ID:** 13D0745-04

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 9:48 am	<u>Date Received</u> 04/19/2013
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**Semi-Volatiles, EPA TCL List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	336	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	607	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	293	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	572	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	720	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	472	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	757	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR



## Sample Information

**Client Sample ID:** SB-05\_0-2

**York Sample ID:** 13D0745-04

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 9:48 am	<u>Date Received</u> 04/19/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	650	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	780	1860	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	410	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	477	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	501	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	306	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	713	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	353	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	809	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	252	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	403	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	486	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	923	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	1170	1860	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	447	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	626	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	241	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	544	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	384	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	349	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
83-32-9	Acenaphthene	ND		ug/kg dry	336	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	446	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
120-12-7	Anthracene	ND		ug/kg dry	507	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
56-55-3	<b>Benzo(a)anthracene</b>	<b>635</b>	J	ug/kg dry	347	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	368	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	778	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
191-24-2	<b>Benzo(g,h,i)perylene</b>	<b>310</b>	J	ug/kg dry	308	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	928	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
65-85-0	Benzoic acid	ND		ug/kg dry	635	1860	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	928	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	512	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	319	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	473	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR



### Sample Information

**Client Sample ID:** SB-05\_0-2

**York Sample ID:** 13D0745-04

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 9:48 am	<u>Date Received</u> 04/19/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	327	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	640	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
218-01-9	<b>Chrysene</b>	<b>683</b>	J	ug/kg dry	427	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	373	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	433	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	583	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	414	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	377	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	928	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
206-44-0	<b>Fluoranthene</b>	<b>1500</b>		ug/kg dry	544	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
86-73-7	Fluorene	ND		ug/kg dry	446	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	548	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	314	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	691	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	265	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	423	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
78-59-1	Isophorone	ND		ug/kg dry	319	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
91-20-3	Naphthalene	ND		ug/kg dry	228	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	273	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	310	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	420	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	700	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
85-01-8	<b>Phenanthrene</b>	<b>767</b>	J	ug/kg dry	485	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
108-95-2	Phenol	ND		ug/kg dry	401	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR
129-00-0	<b>Pyrene</b>	<b>1830</b>		ug/kg dry	379	928	5	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 13:38	SR



### Sample Information

**Client Sample ID:** SB-05\_0-2

**York Sample ID:** 13D0745-04

York Project (SDG) No.  
13D0745

Client Project ID  
170157901 (H4H)

Matrix  
Soil

Collection Date/Time  
April 19, 2013 9:48 am

Date Received  
04/19/2013

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
72-55-9	<b>4,4'-DDE</b>	<b>4.86</b>		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
50-29-3	<b>4,4'-DDT</b>	<b>10.6</b>		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
309-00-2	Aldrin	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	18.9	18.9	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:48	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	18.9	18.9	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:48	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	18.9	18.9	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:48	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	18.9	18.9	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:48	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	18.9	18.9	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:48	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	18.9	18.9	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:48	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	18.9	18.9	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:48	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
57-74-9	Chlordane, total	ND		ug/kg dry	7.35	7.35	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
60-57-1	<b>Dieldrin</b>	<b>19.3</b>		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
72-20-8	Endrin	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.84	1.84	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
72-43-5	Methoxychlor	ND		ug/kg dry	9.19	9.19	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW
1336-36-3	Total PCBs	ND		ug/kg dry	7.57	18.9	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 14:48	JW
8001-35-2	Toxaphene	ND		ug/kg dry	93.0	93.0	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:37	JW



### Sample Information

**Client Sample ID:** SB-05\_0-2

**York Sample ID:** 13D0745-04

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 9:48 am	<u>Date Received</u> 04/19/2013
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**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5730		mg/kg dry	1.14	2.23	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-36-0	Antimony	ND		mg/kg dry	0.245	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-38-2	Arsenic	4.54		mg/kg dry	0.379	1.11	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-39-3	Barium	84.9		mg/kg dry	0.145	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.111	0.111	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.111	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-70-2	Calcium	28100		mg/kg dry	0.045	5.57	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-47-3	Chromium	8.23		mg/kg dry	0.134	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-48-4	Cobalt	2.85		mg/kg dry	0.089	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-50-8	Copper	14.4		mg/kg dry	0.134	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7439-89-6	Iron	7570		mg/kg dry	0.724	2.23	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7439-92-1	Lead	107		mg/kg dry	0.189	0.334	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7439-95-4	Magnesium	2720		mg/kg dry	0.501	5.57	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7439-96-5	Manganese	156		mg/kg dry	0.123	1.11	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-02-0	Nickel	5.41		mg/kg dry	0.145	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-09-7	Potassium	524		mg/kg dry	3.77	11.1	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7782-49-2	Selenium	1.43		mg/kg dry	0.557	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-22-4	Silver	ND		mg/kg dry	0.111	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-23-5	Sodium	236		mg/kg dry	5.87	11.1	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-28-0	Thallium	ND		mg/kg dry	0.356	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-62-2	Vanadium	13.6		mg/kg dry	0.123	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW
7440-66-6	Zinc	71.8		mg/kg dry	0.100	0.557	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:40	MW

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.105	0.111	1	EPA SW846-7471	04/23/2013 09:16	04/23/2013 17:03	AA



### Sample Information

**Client Sample ID:** SB-05\_0-2

**York Sample ID:** 13D0745-04

York Project (SDG) No. 13D0745      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 19, 2013 9:48 am      Date Received 04/19/2013

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	89.8		%	0.100	0.100	1	SM 2540G	04/23/2013 13:31	04/23/2013 13:31	ALD

### Sample Information

**Client Sample ID:** SB-05\_1-2

**York Sample ID:** 13D0745-05

York Project (SDG) No. 13D0745      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 19, 2013 9:48 am      Date Received 04/19/2013

**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg wet	2.3	9.0	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg wet	2.3	9.0	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
78-93-3	2-Butanone	ND		ug/kg wet	2.3	9.0	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
591-78-6	2-Hexanone	ND		ug/kg wet	2.3	9.0	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
67-64-1	Acetone	7.2	J	ug/kg wet	2.3	9.0	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
71-43-2	Benzene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-27-4	Bromodichloromethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-25-2	Bromoform	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
74-83-9	Bromomethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-15-0	Carbon disulfide	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
56-23-5	Carbon tetrachloride	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK



### Sample Information

**Client Sample ID:** SB-05\_1-2

**York Sample ID:** 13D0745-05

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 9:48 am	<u>Date Received</u> 04/19/2013
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### Volatile Organics, TCL (Target Compound List)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-00-3	Chloroethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
67-66-3	Chloroform	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
74-87-3	Chloromethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
124-48-1	Dibromochloromethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
100-41-4	Ethyl Benzene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-09-2	<b>Methylene chloride</b>	<b>9.4</b>		ug/kg wet	2.3	9.0	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
91-20-3	Naphthalene	ND		ug/kg wet	2.3	9.0	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
104-51-8	n-Butylbenzene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
103-65-1	n-Propylbenzene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
95-47-6	o-Xylene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg wet	2.3	9.0	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
135-98-8	sec-Butylbenzene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
100-42-5	Styrene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
98-06-6	tert-Butylbenzene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
127-18-4	Tetrachloroethylene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
108-88-3	Toluene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
79-01-6	Trichloroethylene	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
75-01-4	Vinyl Chloride	ND		ug/kg wet	2.3	4.5	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK
1330-20-7	Xylenes, Total	ND		ug/kg wet	2.3	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 14:26	BK

### Sample Information

**Client Sample ID:** SB-05\_10-12

**York Sample ID:** 13D0745-06

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 10:30 am	<u>Date Received</u> 04/19/2013
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## Sample Information

**Client Sample ID:** SB-05\_10-12

**York Sample ID:** 13D0745-06

York Project (SDG) No.  
13D0745

Client Project ID  
170157901 (H4H)

Matrix  
Soil

Collection Date/Time  
April 19, 2013 10:30 am

Date Received  
04/19/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	63.1	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	114	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	55.1	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	107	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	135	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	88.6	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	142	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	122	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	146	349	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	77.1	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	89.6	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	94.2	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.6	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	134	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	66.3	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	152	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.4	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	75.7	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	91.4	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	173	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	220	349	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	84.1	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	118	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.3	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	102	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	72.2	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	65.6	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
83-32-9	Acenaphthene	ND		ug/kg dry	63.1	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	83.7	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
120-12-7	Anthracene	ND		ug/kg dry	95.2	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
56-55-3	<b>Benzo(a)anthracene</b>	<b>103</b>	J	ug/kg dry	65.2	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
50-32-8	<b>Benzo(a)pyrene</b>	<b>96.3</b>	J	ug/kg dry	69.1	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	146	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR



## Sample Information

**Client Sample ID:** SB-05\_10-12

**York Sample ID:** 13D0745-06

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 10:30 am	<u>Date Received</u> 04/19/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	57.9	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	174	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
65-85-0	Benzoic acid	ND		ug/kg dry	119	349	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	174	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	96.3	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	60.0	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.9	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	61.4	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
117-81-7	<b>Bis(2-ethylhexyl)phthalate</b>	<b>300</b>		ug/kg dry	120	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
218-01-9	<b>Chrysene</b>	<b>112</b>	J	ug/kg dry	80.2	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	70.1	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	81.3	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	110	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	77.8	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	70.8	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	174	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
206-44-0	<b>Fluoranthene</b>	<b>223</b>		ug/kg dry	102	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
86-73-7	Fluorene	ND		ug/kg dry	83.7	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	103	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	58.9	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	130	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	49.9	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	79.5	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
78-59-1	Isophorone	ND		ug/kg dry	60.0	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
91-20-3	Naphthalene	ND		ug/kg dry	42.9	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.3	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	58.2	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	78.8	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	131	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
85-01-8	<b>Phenanthrene</b>	<b>153</b>	J	ug/kg dry	91.0	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
108-95-2	Phenol	ND		ug/kg dry	75.3	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR
129-00-0	<b>Pyrene</b>	<b>257</b>		ug/kg dry	71.2	174	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:10	SR



### Sample Information

**Client Sample ID:** SB-05\_10-12

**York Sample ID:** 13D0745-06

York Project (SDG) No.  
13D0745

Client Project ID  
170157901 (H4H)

Matrix  
Soil

Collection Date/Time  
April 19, 2013 10:30 am

Date Received  
04/19/2013

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
50-29-3	<b>4,4'-DDT</b>	<b>7.21</b>		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
309-00-2	Aldrin	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	17.8	17.8	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:31	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	17.8	17.8	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:31	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	17.8	17.8	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:31	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	17.8	17.8	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:31	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	17.8	17.8	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:31	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	17.8	17.8	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:31	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	17.8	17.8	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:31	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
57-74-9	Chlordane, total	ND		ug/kg dry	6.91	6.91	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
60-57-1	<b>Dieldrin</b>	<b>6.11</b>		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
72-20-8	Endrin	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.73	1.73	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
72-43-5	Methoxychlor	ND		ug/kg dry	8.63	8.63	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW
1336-36-3	Total PCBs	ND		ug/kg dry	7.12	17.8	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:31	JW
8001-35-2	Toxaphene	ND		ug/kg dry	87.4	87.4	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 10:52	JW



### Sample Information

**Client Sample ID:** SB-05\_10-12

**York Sample ID:** 13D0745-06

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 10:30 am	<u>Date Received</u> 04/19/2013
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**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5180		mg/kg dry	1.07	2.09	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-36-0	Antimony	ND		mg/kg dry	0.230	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-38-2	Arsenic	2.34		mg/kg dry	0.356	1.05	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-39-3	Barium	49.4		mg/kg dry	0.136	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.105	0.105	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.105	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-70-2	Calcium	4190		mg/kg dry	0.042	5.23	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-47-3	Chromium	12.6		mg/kg dry	0.126	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-48-4	Cobalt	5.47		mg/kg dry	0.084	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-50-8	Copper	24.1		mg/kg dry	0.126	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7439-89-6	Iron	22200		mg/kg dry	0.680	2.09	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7439-92-1	Lead	29.1		mg/kg dry	0.178	0.314	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7439-95-4	Magnesium	1590		mg/kg dry	0.471	5.23	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7439-96-5	Manganese	433		mg/kg dry	0.115	1.05	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-02-0	Nickel	8.22		mg/kg dry	0.136	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-09-7	Potassium	638		mg/kg dry	3.54	10.5	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7782-49-2	Selenium	3.83		mg/kg dry	0.523	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-22-4	Silver	ND		mg/kg dry	0.105	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-23-5	Sodium	118		mg/kg dry	5.51	10.5	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-28-0	Thallium	ND		mg/kg dry	0.335	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-62-2	Vanadium	17.5		mg/kg dry	0.115	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW
7440-66-6	Zinc	32.8		mg/kg dry	0.094	0.523	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:45	MW

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0984	0.105	1	EPA SW846-7471	04/23/2013 09:16	04/23/2013 17:03	AA



### Sample Information

**Client Sample ID:** SB-05\_10-12

**York Sample ID:** 13D0745-06

York Project (SDG) No. 13D0745      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 19, 2013 10:30 am      Date Received 04/19/2013

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	95.6		%	0.100	0.100	1	SM 2540G	04/23/2013 13:31	04/23/2013 13:31	ALD

### Sample Information

**Client Sample ID:** SB-01\_10-12

**York Sample ID:** 13D0745-07

York Project (SDG) No. 13D0745      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 19, 2013 2:00 pm      Date Received 04/19/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	62.0	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	112	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	54.1	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	105	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	133	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	87.0	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	140	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	120	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	144	342	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	75.7	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	88.0	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.4	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	56.5	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	131	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	65.1	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	149	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	46.6	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	74.3	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	89.7	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	170	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	216	342	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	82.5	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	115	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR



### Sample Information

**Client Sample ID:** SB-01\_10-12

**York Sample ID:** 13D0745-07

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 2:00 pm	<u>Date Received</u> 04/19/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-47-8	4-Chloroaniline	ND		ug/kg dry	44.5	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	100	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	70.9	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	64.4	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
83-32-9	Acenaphthene	ND		ug/kg dry	62.0	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	82.2	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
120-12-7	<b>Anthracene</b>	<b>97.2</b>	J	ug/kg dry	93.5	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
56-55-3	<b>Benzo(a)anthracene</b>	<b>85.6</b>	J	ug/kg dry	64.0	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
50-32-8	<b>Benzo(a)pyrene</b>	<b>81.1</b>	J	ug/kg dry	67.8	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	143	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	56.8	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	171	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
65-85-0	Benzoic acid	ND		ug/kg dry	117	342	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	171	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	94.5	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	58.9	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	87.3	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	60.3	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	118	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
218-01-9	<b>Chrysene</b>	<b>88.7</b>	J	ug/kg dry	78.7	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	68.8	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	79.8	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	108	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	76.3	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	69.5	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	171	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
206-44-0	<b>Fluoranthene</b>	<b>149</b>	J	ug/kg dry	100	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
86-73-7	Fluorene	ND		ug/kg dry	82.2	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	101	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	57.9	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	127	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	49.0	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	78.1	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR



### Sample Information

**Client Sample ID:** SB-01\_10-12

**York Sample ID:** 13D0745-07

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 2:00 pm	<u>Date Received</u> 04/19/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	58.9	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
91-20-3	Naphthalene	ND		ug/kg dry	42.1	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.3	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	57.2	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	77.4	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	129	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
85-01-8	<b>Phenanthrene</b>	<b>101</b>	J	ug/kg dry	89.4	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
108-95-2	Phenol	ND		ug/kg dry	74.0	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR
129-00-0	<b>Pyrene</b>	<b>167</b>	J	ug/kg dry	69.8	171	1	EPA SW846-8270C	04/23/2013 06:29	04/24/2013 14:42	SR

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
50-29-3	<b>4,4'-DDT</b>	<b>2.07</b>		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
309-00-2	Aldrin	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
319-84-6	alpha-BHC	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	17.5	17.5	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:50	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	17.5	17.5	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:50	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	17.5	17.5	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:50	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	17.5	17.5	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:50	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	17.5	17.5	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:50	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	17.5	17.5	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:50	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	17.5	17.5	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:50	JW
319-85-7	beta-BHC	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
57-74-9	Chlordane, total	ND		ug/kg dry	6.78	6.78	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
319-86-8	delta-BHC	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
60-57-1	Dieldrin	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
959-98-8	Endosulfan I	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
72-20-8	Endrin	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW



## Sample Information

**Client Sample ID:** SB-01\_10-12

**York Sample ID:** 13D0745-07

York Project (SDG) No.  
13D0745

Client Project ID  
170157901 (H4H)

Matrix  
Soil

Collection Date/Time  
April 19, 2013 2:00 pm

Date Received  
04/19/2013

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
76-44-8	Heptachlor	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.69	1.69	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
72-43-5	Methoxychlor	ND		ug/kg dry	8.47	8.47	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW
1336-36-3	Total PCBs	ND		ug/kg dry	6.98	17.5	1	EPA SW 846-8081/8082	04/23/2013 06:22	04/23/2013 19:50	JW
8001-35-2	Toxaphene	ND		ug/kg dry	85.8	85.8	5	EPA SW 846-8081/8082	04/23/2013 06:22	04/24/2013 11:07	JW

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>4100</b>		mg/kg dry	1.05	2.05	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-36-0	Antimony	ND		mg/kg dry	0.226	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-38-2	<b>Arsenic</b>	<b>1.78</b>		mg/kg dry	0.349	1.03	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-39-3	<b>Barium</b>	<b>22.6</b>		mg/kg dry	0.134	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.103	0.103	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.103	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-70-2	<b>Calcium</b>	<b>807</b>		mg/kg dry	0.041	5.14	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-47-3	<b>Chromium</b>	<b>11.6</b>		mg/kg dry	0.123	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-48-4	<b>Cobalt</b>	<b>5.72</b>		mg/kg dry	0.082	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-50-8	<b>Copper</b>	<b>20.9</b>		mg/kg dry	0.123	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7439-89-6	<b>Iron</b>	<b>19900</b>		mg/kg dry	0.668	2.05	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7439-92-1	<b>Lead</b>	<b>7.06</b>		mg/kg dry	0.175	0.308	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7439-95-4	<b>Magnesium</b>	<b>1540</b>		mg/kg dry	0.462	5.14	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7439-96-5	<b>Manganese</b>	<b>382</b>		mg/kg dry	0.113	1.03	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-02-0	<b>Nickel</b>	<b>6.40</b>		mg/kg dry	0.134	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-09-7	<b>Potassium</b>	<b>585</b>		mg/kg dry	3.47	10.3	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7782-49-2	<b>Selenium</b>	<b>2.78</b>		mg/kg dry	0.514	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-22-4	Silver	ND		mg/kg dry	0.103	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-23-5	<b>Sodium</b>	<b>55.3</b>		mg/kg dry	5.41	10.3	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-28-0	Thallium	ND		mg/kg dry	0.329	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-62-2	<b>Vanadium</b>	<b>15.7</b>		mg/kg dry	0.113	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW
7440-66-6	<b>Zinc</b>	<b>24.0</b>		mg/kg dry	0.092	0.514	1	EPA SW846-6010B	04/22/2013 15:47	04/22/2013 22:50	MW



### Sample Information

**Client Sample ID:** SB-01\_10-12

**York Sample ID:** 13D0745-07

York Project (SDG) No. 13D0745      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 19, 2013 2:00 pm      Date Received 04/19/2013

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0965	0.103	1	EPA SW846-7471	04/23/2013 09:16	04/23/2013 17:03	AA

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	97.4		%	0.100	0.100	1	SM 2540G	04/23/2013 13:31	04/23/2013 13:31	ALD

### Sample Information

**Client Sample ID:** SB-05\_11-12

**York Sample ID:** 13D0745-08

York Project (SDG) No. 13D0745      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 19, 2013 10:30 am      Date Received 04/19/2013

**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg wet	2.3	9.2	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg wet	2.3	9.2	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
78-93-3	2-Butanone	ND		ug/kg wet	2.3	9.2	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
591-78-6	2-Hexanone	ND		ug/kg wet	2.3	9.2	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
67-64-1	Acetone	11		ug/kg wet	2.3	9.2	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
71-43-2	Benzene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK



## Sample Information

**Client Sample ID:** SB-05\_11-12

**York Sample ID:** 13D0745-08

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 10:30 am	<u>Date Received</u> 04/19/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
75-25-2	Bromoform	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
74-83-9	Bromomethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
75-15-0	Carbon disulfide	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
56-23-5	Carbon tetrachloride	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
108-90-7	Chlorobenzene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
75-00-3	Chloroethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
67-66-3	Chloroform	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
74-87-3	Chloromethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
124-48-1	Dibromochloromethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
100-41-4	Ethyl Benzene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
75-09-2	<b>Methylene chloride</b>	<b>12</b>		ug/kg wet	2.3	9.2	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
91-20-3	Naphthalene	ND		ug/kg wet	2.3	9.2	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
104-51-8	n-Butylbenzene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
103-65-1	n-Propylbenzene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
95-47-6	o-Xylene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg wet	2.3	9.2	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
135-98-8	sec-Butylbenzene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
100-42-5	Styrene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
98-06-6	tert-Butylbenzene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
127-18-4	Tetrachloroethylene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
108-88-3	Toluene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
79-01-6	Trichloroethylene	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
75-01-4	Vinyl Chloride	ND		ug/kg wet	2.3	4.6	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK
1330-20-7	Xylenes, Total	ND		ug/kg wet	2.3	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:01	BK



## Sample Information

**Client Sample ID:** SB-01\_10-11

**York Sample ID:** 13D0745-09

<u>York Project (SDG) No.</u> 13D0745	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 19, 2013 2:00 pm	<u>Date Received</u> 04/19/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg wet	3.5	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg wet	3.5	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
78-93-3	2-Butanone	ND		ug/kg wet	3.5	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
591-78-6	2-Hexanone	ND		ug/kg wet	3.5	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
67-64-1	<b>Acetone</b>	<b>6.6</b>	J	ug/kg wet	3.5	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
71-43-2	Benzene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-27-4	Bromodichloromethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-25-2	Bromoform	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
74-83-9	Bromomethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-15-0	Carbon disulfide	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
56-23-5	Carbon tetrachloride	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
108-90-7	Chlorobenzene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-00-3	Chloroethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
67-66-3	Chloroform	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
74-87-3	Chloromethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
124-48-1	Dibromochloromethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
100-41-4	Ethyl Benzene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK



## Sample Information

**Client Sample ID:** SB-01\_10-11

**York Sample ID:** 13D0745-09

York Project (SDG) No.  
13D0745

Client Project ID  
170157901 (H4H)

Matrix  
Soil

Collection Date/Time  
April 19, 2013 2:00 pm

Date Received  
04/19/2013

### Volatile Organics, TCL (Target Compound List)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-09-2	<b>Methylene chloride</b>	<b>19</b>		ug/kg wet	3.5	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
91-20-3	Naphthalene	ND		ug/kg wet	3.5	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
104-51-8	n-Butylbenzene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
103-65-1	n-Propylbenzene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
95-47-6	o-Xylene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg wet	3.5	14	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
135-98-8	sec-Butylbenzene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
100-42-5	Styrene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
98-06-6	tert-Butylbenzene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
127-18-4	Tetrachloroethylene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
108-88-3	Toluene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
79-01-6	Trichloroethylene	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
75-01-4	Vinyl Chloride	ND		ug/kg wet	3.5	6.9	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK
1330-20-7	Xylenes, Total	ND		ug/kg wet	3.5	21	1	EPA SW846-8260B	04/24/2013 10:15	04/24/2013 15:35	BK



## Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13D0745-02	SB-01_1-2	Encore Sampler
13D0745-03	SB-01_6-7	Encore Sampler
13D0745-05	SB-05_1-2	Encore Sampler
13D0745-08	SB-05_11-12	Encore Sampler
13D0745-09	SB-01_10-11	Encore Sampler

### Notes and Definitions

S-AC	Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.
<hr/>	
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

---



YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRAFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 1300745

<b>YOUR INFORMATION</b> Company: <u>LANGAN ENG</u> Address: <u>NYC OFFICE</u> Phone No: <u>646-434-8211</u> Contact Person: <u>D. CARRUS</u> E-Mail Address: <u>dcarrus@langan.com</u>		<b>Report To:</b> Company: <u>SAME</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		<b>Invoice To:</b> Company: _____ Address: <u>SAME</u> Phone No: _____ Attention: _____ E-Mail Address: _____		<b>YOUR PROJECT ID</b> <u>170157901</u> <b>Purchase Order No.</b> _____		<b>Turn-Around Time</b> <input type="checkbox"/> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <b>Standard (5-7 Days)</b> <input checked="" type="checkbox"/>		<b>Report Type</b> <input type="checkbox"/> Summary Report <input type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DQA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJDEP Red. Deliv. <i>Electronic Data Deliverables (EDD)</i> <input type="checkbox"/> Simple Excel <input type="checkbox"/> NY SDEC EQuIS <input type="checkbox"/> EQuIS (std) <input type="checkbox"/> EZ-EDD (EQuIS) <input type="checkbox"/> NJDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other <input type="checkbox"/> York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet <small>Compare to the following keys (please fill in)</small>	
---	--	---	--	--	--	--	--	---	--	---	--

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

*Daniel Carrus*  
 Samples Collected/Authorized By (Signature)  
DANIEL CARRUS  
 Name (printed)

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SB-01-0-2	2013 04 19 0948	SOIL	TCL SVOC, TAL METAL, PEST & PCB	0 02 JAR
SB-01-1-2	2013 04 19 0948		TCL VOC	3x 5g ENCORE
SB-01-6-7	2013 04 19 0948		TCL VOC, TAL SVOC, TAL METAL, PEST & PCB	3x 5g ENCORE, 8 02
SB-05-0-2	2013 04 19 0948		TCL SVOC, TAL METAL, PEST & PCB	8 02 JAR
SB-05-1-2	2013 04 19 0948		TCL VOC	3x 5g ENCORE
SB-05-10-12	2013 04 19 1400		TCL SVOC, TAL METAL, PEST & PCB	8 02 JAR
SB-05-11-12	2013 04 19 1400		TCL SVOC, TAL METAL, PEST & PCB	8 02 JAR
SB-01-10-11	2013 04 19 1400	↓	TCL VOC	3x 5g ENCORE
SB-01-10-11	2013 04 19 1400	↓	TCL VOC	3x 5g ENCORE

Comments: GB & DEAN ST.  
144 BKLYN NY

Preservation: 4°C \_\_\_\_\_ Frozen \_\_\_\_\_ HCl \_\_\_\_\_ HNO<sub>3</sub> \_\_\_\_\_ H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_ NaOH \_\_\_\_\_  
 Check those Applicable: Zn/Ac \_\_\_\_\_ Ascorbic Acid \_\_\_\_\_ Other \_\_\_\_\_

Special Instructions: TC full  
 Field Filled: 2013 04 19 1426  
 Lab to Filter: \_\_\_\_\_

Samples Relinquished By: TC full Date/Time: 4-19-13 1740  
 Samples Relinquished By: TC full Date/Time: 4-19-13 1740

Temperature on Receipt: 3.5°C

Page 36 of 36



# Technical Report

prepared for:

**Langan Engineering & Environmental Services (NYC)**

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

**Attention: Daniel Carrus**

Report Date: 05/08/2013

**Client Project ID: 170157901**

York Project (SDG) No.: 13E0240

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 05/08/2013  
Client Project ID: 170157901  
York Project (SDG) No.: 13E0240

**Langan Engineering & Environmental Services (NYC)**  
21 Penn Plaza, 360 West 31st Street  
New York NY, 10001  
Attention: Daniel Carrus

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 25, 2013 and listed below. The project was identified as your project: **170157901**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13E0240-01	MW-03-GW	Water	04/25/2013	04/25/2013

## General Notes for York Project (SDG) No.: 13E0240

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 05/08/2013

**YORK**



### Sample Information

**Client Sample ID:** MW-03-GW

**York Sample ID:** 13E0240-01

York Project (SDG) No.  
13E0240

Client Project ID  
170157901

Matrix  
Water

Collection Date/Time  
April 25, 2013 2:45 pm

Date Received  
04/25/2013

**Metals, Target Analyte, Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.010	0.010	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-36-0	Antimony	ND		mg/L	0.003	0.005	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-39-3	<b>Barium</b>	<b>0.055</b>		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-43-9	Cadmium	ND		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-70-2	<b>Calcium</b>	<b>66.6</b>		mg/L	0.019	0.050	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-47-3	Chromium	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-48-4	Cobalt	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-50-8	Copper	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7439-89-6	<b>Iron</b>	<b>0.022</b>		mg/L	0.010	0.020	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7439-92-1	Lead	ND		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7439-95-4	<b>Magnesium</b>	<b>19.4</b>		mg/L	0.010	0.050	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7439-96-5	<b>Manganese</b>	<b>0.340</b>		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-02-0	<b>Nickel</b>	<b>0.005</b>		mg/L	0.001	0.005	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-09-7	<b>Potassium</b>	<b>4.27</b>		mg/L	0.026	0.050	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7782-49-2	Selenium	ND		mg/L	0.007	0.010	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-22-4	Silver	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-23-5	<b>Sodium</b>	<b>78.7</b>		mg/L	0.061	0.100	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-28-0	Thallium	ND		mg/L	0.003	0.010	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-62-2	Vanadium	ND		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW
7440-66-6	Zinc	ND		mg/L	0.002	0.020	1	EPA SW846-6010B/EPA 200.7	05/08/2013 10:44	05/08/2013 12:16	MW

**Mercury, Dissolved**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0000390	0.0002000	1	EPA SW846-7470/EPA 245.1	05/08/2013 12:37	05/08/2013 12:37	AA



## Notes and Definitions

---

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

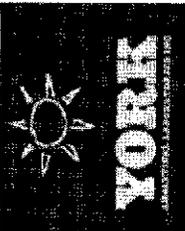
If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

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YORK  
 1209 245 571  
 245 255 166

# Field Chain-of-Custody Record

Page 1 of 1  
 13E0240  
 York Project No. 13X922

NOTE: This document is your written authorization to York to proceed with the analysis requested. Any verbal signature by you is not valid.

**YOUR Information**  
 Company: LANGAN  
 Address: NYC  
 Phone No: 646-434-8211  
 Contact Person: D.CARRUS  
 E-Mail Address: dcarrus@langan.com

**Report To:** SAME  
**Invoice To:** SAME  
**YOUR Project ID:** 170157901  
**Purchase Order No.:**

**Turn-Around Time:** RUSH - Same Day  
 RUSH - Next Day  
 RUSH - Two Day  
 RUSH - Three Day  
 RUSH - Four Day  
 Standard (5-7 Days)

**Report Type:** Summary Report  
 Summary w/ QA Summary  
 CI RCP Package  
 CTRCP DOA DUE PKG  
 NY ASP A Package  
 NY ASP B Package  
 NDEP Resl. Detn.  
 Electronic Data Deliverables (EDD)  
 Sample Type  
 NYSDH FORMS  
 EHS Inside  
 E-Field Package  
 NDEP SRP HazSize ETD  
 GIS KEY Isdnt  
 Other  
 York Regulatory Comparison  
 Excel Spreadsheet  
 Other (specify below)

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Volatiles	Semi-Volatiles	Metals	Misc. Org.	Full Lists	Misc.
PCB's PCB AQS PCB S PCB T PCB F PCB O PCB P PCB M PCB D PCB C PCB B PCB A	PCB's PCB AQS PCB S PCB T PCB F PCB O PCB P PCB M PCB D PCB C PCB B PCB A	PCB's PCB AQS PCB S PCB T PCB F PCB O PCB P PCB M PCB D PCB C PCB B PCB A	PCB's PCB AQS PCB S PCB T PCB F PCB O PCB P PCB M PCB D PCB C PCB B PCB A	PCB's PCB AQS PCB S PCB T PCB F PCB O PCB P PCB M PCB D PCB C PCB B PCB A	PCB's PCB AQS PCB S PCB T PCB F PCB O PCB P PCB M PCB D PCB C PCB B PCB A

**Choose Analyses Needed from the Menu Above and Enter Below**

Sample Identification	Date/Time Sampled	Sample Matrix	Container Descriptions
MW-03-GW	2013-04-25 1445	GW	TCL VOC, TCL SVOC, TAL METAL, PEST, PCB 3X IL AMBER 3X VOA, HCL 1X 250 mL 1X 250 ML HNO3

**Comments:**  
 201 MOTHER GASTON BLVD,  
 BKLYN

**Preservation:** FOC Frozen  Meth  HNO  NaOH

**Signature:** D.CARRUS  
 Date: 2013-04-25  
 H. Baker 4-25-13  
 4-25-13 1800

**Temperature on Receipt:** 7.7



# Technical Report

prepared for:

**Langan Engineering & Environmental Services (NYC)**

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

**Attention: Daniel Carrus**

Report Date: 05/02/2013

**Client Project ID: 170157901**

York Project (SDG) No.: 13D0922

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 05/02/2013  
Client Project ID: 170157901  
York Project (SDG) No.: 13D0922

**Langan Engineering & Environmental Services (NYC)**  
21 Penn Plaza, 360 West 31st Street  
New York NY, 10001  
Attention: Daniel Carrus

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 25, 2013 and listed below. The project was identified as your project: **170157901**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13D0922-01	MW-03-GW	Water	04/25/2013	04/25/2013

## General Notes for York Project (SDG) No.: 13D0922

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 05/02/2013

**YORK**



### Sample Information

**Client Sample ID:** MW-03-GW

**York Sample ID:** 13D0922-01

York Project (SDG) No.  
13D0922

Client Project ID  
170157901

Matrix  
Water

Collection Date/Time  
April 25, 2013 2:45 pm

Date Received  
04/25/2013

**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.59	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.34	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.3	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.42	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.91	10	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.98	10	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.44	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.36	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.23	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.48	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
78-93-3	2-Butanone	ND		ug/L	1.5	10	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
591-78-6	2-Hexanone	ND		ug/L	1.1	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.86	10	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
67-64-1	Acetone	ND		ug/L	6.1	10	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
71-43-2	Benzene	ND		ug/L	0.30	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-25-2	Bromoform	ND		ug/L	0.58	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-15-0	Carbon disulfide	ND		ug/L	0.51	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.56	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
108-90-7	Chlorobenzene	ND		ug/L	0.38	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-00-3	Chloroethane	ND		ug/L	2.8	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
67-66-3	<b>Chloroform</b>	<b>1.5</b>	J	ug/L	0.42	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
74-87-3	Chloromethane	ND		ug/L	0.41	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.43	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.41	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.39	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.35	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.25	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS



## Sample Information

**Client Sample ID:** MW-03-GW

**York Sample ID:** 13D0922-01

<u>York Project (SDG) No.</u> 13D0922	<u>Client Project ID</u> 170157901	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 25, 2013 2:45 pm	<u>Date Received</u> 04/25/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.63	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.53	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-09-2	Methylene chloride	ND		ug/L	2.4	10	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
91-20-3	Naphthalene	ND		ug/L	1.2	10	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.30	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.54	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
95-47-6	o-Xylene	ND		ug/L	0.21	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.53	10	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.59	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
100-42-5	Styrene	ND		ug/L	0.22	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
98-06-6	tert-Butylbenzene	ND		ug/L	1.4	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
127-18-4	<b>Tetrachloroethylene</b>	<b>13</b>		ug/L	0.41	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
108-88-3	Toluene	ND		ug/L	0.17	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.52	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.67	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
79-01-6	Trichloroethylene	ND		ug/L	0.16	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.54	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.68	5.0	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.55	15	1	EPA SW846-8260B/EPA 624	04/26/2013 15:35	04/27/2013 03:46	SS

**Semi-volatiles, EPA TCL List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.38	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.72	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.89	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.40	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.80	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.44	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.25	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.88	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.1	10.5	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.49	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.69	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR



## Sample Information

**Client Sample ID:** MW-03-GW

**York Sample ID:** 13D0922-01

York Project (SDG) No.  
13D0922

Client Project ID  
170157901

Matrix  
Water

Collection Date/Time  
April 25, 2013 2:45 pm

Date Received  
04/25/2013

**Semi-volatiles, EPA TCL List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		ug/L	3.67	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
95-57-8	2-Chlorophenol	ND		ug/L	3.60	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	3.24	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
95-48-7	2-Methylphenol	ND		ug/L	0.902	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
88-74-4	2-Nitroaniline	ND		ug/L	3.17	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
88-75-5	2-Nitrophenol	ND		ug/L	3.27	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.91	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	3.70	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
99-09-2	3-Nitroaniline	ND		ug/L	1.68	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	7.05	10.5	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.63	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.82	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
106-47-8	4-Chloroaniline	ND		ug/L	3.94	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.28	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
100-01-6	4-Nitroaniline	ND		ug/L	3.97	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
100-02-7	4-Nitrophenol	ND		ug/L	4.15	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
83-32-9	Acenaphthene	ND		ug/L	0.0341	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0451	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
120-12-7	Anthracene	ND		ug/L	0.0484	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0428	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0511	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0434	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0437	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0364	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
65-85-0	Benzoic acid	ND		ug/L	9.16	10.5	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
100-51-6	Benzyl alcohol	ND		ug/L	4.21	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.42	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.10	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	4.34	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	4.37	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
117-81-7	<b>Bis(2-ethylhexyl)phthalate</b>	<b>12.9</b>		ug/L	2.71	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
218-01-9	Chrysene	ND		ug/L	0.0437	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0326	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR



### Sample Information

**Client Sample ID:** MW-03-GW

**York Sample ID:** 13D0922-01

York Project (SDG) No.  
13D0922

Client Project ID  
170157901

Matrix  
Water

Collection Date/Time  
April 25, 2013 2:45 pm

Date Received  
04/25/2013

**Semi-volatiles, EPA TCL List - Low Level**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
132-64-9	Dibenzofuran	ND		ug/L	3.05	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
84-66-2	Diethyl phthalate	ND		ug/L	2.32	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.10	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	4.34	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	4.37	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
206-44-0	Fluoranthene	ND		ug/L	0.0167	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
86-73-7	Fluorene	ND		ug/L	0.0340	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
118-74-1	Hexachlorobenzene	ND		ug/L	3.11	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	3.48	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.63	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
67-72-1	Hexachloroethane	ND		ug/L	3.82	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0289	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
78-59-1	Isophorone	ND		ug/L	3.40	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
91-20-3	Naphthalene	ND		ug/L	4.07	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
98-95-3	Nitrobenzene	ND		ug/L	2.07	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.71	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.81	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
87-86-5	Pentachlorophenol	ND		ug/L	3.96	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
85-01-8	Phenanthrene	ND		ug/L	0.0381	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
108-95-2	Phenol	ND		ug/L	3.44	5.26	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR
129-00-0	Pyrene	ND		ug/L	0.0253	0.0526	1	EPA SW846-8270C/EPA 625	05/02/2013 07:57	05/02/2013 14:16	SR



### Sample Information

**Client Sample ID:** MW-03-GW

**York Sample ID:** 13D0922-01

<u>York Project (SDG) No.</u> 13D0922	<u>Client Project ID</u> 170157901	<u>Matrix</u> Water	<u>Collection Date/Time</u> April 25, 2013 2:45 pm	<u>Date Received</u> 04/25/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	0.00957		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
72-55-9	4,4'-DDE	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
50-29-3	4,4'-DDT	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
309-00-2	Aldrin	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
319-84-6	alpha-BHC	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
12674-11-2	Aroclor 1016	ND		ug/L	0.0427	0.0588	1	EPA SW 846-8081/8082	04/29/2013 07:17	04/30/2013 22:18	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0427	0.0588	1	EPA SW 846-8081/8082	04/29/2013 07:17	04/30/2013 22:18	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0427	0.0588	1	EPA SW 846-8081/8082	04/29/2013 07:17	04/30/2013 22:18	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0427	0.0588	1	EPA SW 846-8081/8082	04/29/2013 07:17	04/30/2013 22:18	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0427	0.0588	1	EPA SW 846-8081/8082	04/29/2013 07:17	04/30/2013 22:18	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0496	0.0588	1	EPA SW 846-8081/8082	04/29/2013 07:17	04/30/2013 22:18	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0496	0.0588	1	EPA SW 846-8081/8082	04/29/2013 07:17	04/30/2013 22:18	JW
319-85-7	beta-BHC	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
57-74-9	Chlordane, total	ND		ug/L	0.00471	0.00471	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
319-86-8	delta-BHC	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
60-57-1	Dieldrin	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
959-98-8	Endosulfan I	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
33213-65-9	Endosulfan II	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
72-20-8	Endrin	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
7421-93-4	Endrin aldehyde	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
53494-70-5	Endrin ketone	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
76-44-8	Heptachlor	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00118	0.00118	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
72-43-5	Methoxychlor	ND		ug/L	0.00588	0.00588	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW
1336-36-3	Total PCBs	ND		ug/L	0.0427	0.0588	1	EPA SW 846-8081/8082	04/29/2013 07:17	04/30/2013 22:18	JW
8001-35-2	Toxaphene	ND		ug/L	0.0588	0.0588	1	EPA SW 846-8081/8082	04/29/2013 07:17	05/01/2013 12:32	JW



### Sample Information

**Client Sample ID:** MW-03-GW

**York Sample ID:** 13D0922-01

York Project (SDG) No.  
13D0922

Client Project ID  
170157901

Matrix  
Water

Collection Date/Time  
April 25, 2013 2:45 pm

Date Received  
04/25/2013

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	0.010		mg/L	0.010	0.010	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-36-0	Antimony	ND		mg/L	0.003	0.005	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-39-3	Barium	0.053		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-43-9	Cadmium	ND		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-70-2	Calcium	64.4		mg/L	0.019	0.050	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-47-3	Chromium	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-48-4	Cobalt	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-50-8	Copper	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7439-89-6	Iron	0.040		mg/L	0.010	0.020	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7439-92-1	Lead	ND		mg/L	0.002	0.003	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7439-95-4	Magnesium	18.2		mg/L	0.010	0.050	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7439-96-5	Manganese	0.466		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-02-0	Nickel	0.007		mg/L	0.001	0.005	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-09-7	Potassium	4.03		mg/L	0.026	0.050	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7782-49-2	Selenium	ND		mg/L	0.007	0.010	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-22-4	Silver	ND		mg/L	0.002	0.005	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-23-5	Sodium	74.3		mg/L	0.061	0.100	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-28-0	Thallium	ND		mg/L	0.003	0.010	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-62-2	Vanadium	ND		mg/L	0.002	0.010	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW
7440-66-6	Zinc	0.021		mg/L	0.002	0.020	1	EPA SW846-6010B/EPA 200.7	04/29/2013 16:16	04/29/2013 21:34	MW

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00004	0.0002	1	EPA SW846-7470	04/26/2013 15:01	04/26/2013 15:01	AA



## Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13D0922-01	MW-03-GW	1000mL Amber Glass Cool to 4° C

### Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.

- 
- ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.



YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRAITFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

Page 1 of 1  
York Project No. 130922

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <b>LANGAN</b>	Company: <b>SAME</b>	Company: <b>SAME</b>	Company: <b>SAME</b>	Company: <b>SAME</b>	Company: <b>SAME</b>	Company: <b>SAME</b>	Company: <b>SAME</b>	Company: <b>SAME</b>	Company: <b>SAME</b>	Company: <b>SAME</b>	Company: <b>SAME</b>
Address: <b>NYC</b>	Address: <b>SAME</b>	Address: <b>SAME</b>	Address: <b>SAME</b>	Address: <b>SAME</b>	Address: <b>SAME</b>	Address: <b>SAME</b>	Address: <b>SAME</b>	Address: <b>SAME</b>	Address: <b>SAME</b>	Address: <b>SAME</b>	Address: <b>SAME</b>
Phone No. <b>646-434-8211</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>	Phone No. <b>SAME</b>
Contact Person: <b>D.CARRUS</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>	Contact Person: <b>SAME</b>
E-Mail Address: <b>dcarrus@langan.com</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>	E-Mail Address: <b>SAME</b>
<p><b>Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</b></p>											
<p>Samples Collected/Authorized By (Signature) <i>Dan</i></p>											
<p>Name (printed) <b>D.CARRUS</b></p>											
<p>Choose Analyses Needed from the Menu Above and Enter Below</p>											
Sample Identification	Date/Time Sampled	Sample Matrix	<p>TCL VOC, TCL SVOC, TAL METAL, PEST, PCB</p>								
MW-03-GW	2013-04-25 1445	GW	<p>3X 1L AMBER 3X VOA, HCL 1X 250 mL 1X 250 mL HNO3</p>								
<p>Comments</p>											
<p>01 MOTHER GASTON BLVD, BKLYN</p>											
<p>Preservation: 4°C <input checked="" type="checkbox"/> Frozen <input checked="" type="checkbox"/> HCl <input checked="" type="checkbox"/> MeOH <input checked="" type="checkbox"/> HNO3 <input checked="" type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> NaOH</p>											
<p>Special Instructions: <input type="checkbox"/> Field Filtered <input type="checkbox"/> Lab to Filter</p>											
<p>Samples Relinquished By: <b>D.CARRUS</b> Date/Time: <b>2013-04-25</b></p>											
<p>Samples Received By: <b>K. Baker</b> Date/Time: <b>4-25-13</b></p>											
<p>Samples Relinquished By: <b>Grace</b> Date/Time: <b>4-25-13 1800</b></p>											
<p>Samples Received in LAB by: <b>Grace</b> Date/Time: <b>4-25-13 1800</b></p>											
<p>Temperature on Receipt: <b>3.7°C</b></p>											



# Technical Report

prepared for:

**Langan Engineering & Environmental Services (NYC)**

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

**Attention: Daniel Carrus**

Report Date: 04/30/2013

**Client Project ID: 170157901**

York Project (SDG) No.: 13D0888

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 04/30/2013  
Client Project ID: 170157901  
York Project (SDG) No.: 13D0888

**Langan Engineering & Environmental Services (NYC)**  
21 Penn Plaza, 360 West 31st Street  
New York NY, 10001  
Attention: Daniel Carrus

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 24, 2013 and listed below. The project was identified as your project: **170157901**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13D0888-01	SG-01_12	Soil Vapor	04/23/2013	04/24/2013
13D0888-02	SG-02_12	Soil Vapor	04/23/2013	04/24/2013
13D0888-03	SG-03_12	Soil Vapor	04/24/2013	04/24/2013

## General Notes for York Project (SDG) No.: 13D0888

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia  
Laboratory Director

Date: 04/30/2013

**YORK**



## Sample Information

**Client Sample ID:** SG-01\_12

**York Sample ID:** 13D0888-01

York Project (SDG) No.  
13D0888

Client Project ID  
170157901

Matrix  
Soil Vapor

Collection Date/Time  
April 23, 2013 3:00 pm

Date Received  
04/24/2013

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	1.3	1.3	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	1.6	1.6	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.8	1.8	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	1.3	1.3	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.93	0.93	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-35-4	<b>1,1-Dichloroethylene</b>	<b>0.91</b>		ug/m <sup>3</sup>	0.91	0.91	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	1.7	1.7	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>3.8</b>		ug/m <sup>3</sup>	1.1	1.1	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.8	1.8	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.4	1.4	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.93	0.93	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	1.1	1.1	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.6	1.6	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>1.2</b>		ug/m <sup>3</sup>	1.1	1.1	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.0	1.0	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.4	1.4	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	1.4	1.4	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.83	0.83	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
78-93-3	<b>2-Butanone</b>	<b>7.1</b>		ug/m <sup>3</sup>	0.68	0.68	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
591-78-6	2-Hexanone	ND		ug/m <sup>3</sup>	0.94	0.94	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.94	0.94	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
67-64-1	<b>Acetone</b>	<b>310</b>	QCAL, E	ug/m <sup>3</sup>	0.55	0.55	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
71-43-2	<b>Benzene</b>	<b>7.6</b>		ug/m <sup>3</sup>	0.73	0.73	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	1.2	1.2	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.4	1.4	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	2.4	2.4	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.89	0.89	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-15-0	<b>Carbon disulfide</b>	<b>45</b>		ug/m <sup>3</sup>	0.72	0.72	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.72	0.72	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
108-90-7	<b>Chlorobenzene</b>	<b>17</b>		ug/m <sup>3</sup>	1.1	1.1	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.61	0.61	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	1.1	1.1	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD



## Sample Information

**Client Sample ID:** SG-01\_12

**York Sample ID:** 13D0888-01

York Project (SDG) No.  
13D0888

Client Project ID  
170157901

Matrix  
Soil Vapor

Collection Date/Time  
April 23, 2013 3:00 pm

Date Received  
04/24/2013

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.47	0.47	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.91	0.91	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	1.0	1.0	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.79	0.79	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.8	1.8	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-71-8	<b>Dichlorodifluoromethane</b>	<b>1.8</b>		ug/m <sup>3</sup>	1.1	1.1	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
141-78-6	Ethyl acetate	ND		ug/m <sup>3</sup>	0.83	0.83	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
100-41-4	<b>Ethyl Benzene</b>	<b>5.4</b>		ug/m <sup>3</sup>	1.0	1.0	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	2.5	2.5	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
67-63-0	<b>Isopropanol</b>	<b>5.0</b>		ug/m <sup>3</sup>	0.56	0.56	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.94	0.94	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.83	0.83	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-09-2	<b>Methylene chloride</b>	<b>3.8</b>		ug/m <sup>3</sup>	0.80	0.80	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
142-82-5	<b>n-Heptane</b>	<b>6.6</b>		ug/m <sup>3</sup>	0.94	0.94	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
110-54-3	<b>n-Hexane</b>	<b>11</b>		ug/m <sup>3</sup>	0.81	0.81	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
95-47-6	<b>o-Xylene</b>	<b>6.5</b>		ug/m <sup>3</sup>	1.0	1.0	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>17</b>		ug/m <sup>3</sup>	1.0	1.0	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
622-96-8	p-Ethyltoluene	ND		ug/m <sup>3</sup>	5.6	5.6	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
115-07-01	Propylene	ND		ug/m <sup>3</sup>	0.40	0.40	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	0.98	0.98	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
127-18-4	<b>Tetrachloroethylene</b>	<b>8.3</b>		ug/m <sup>3</sup>	1.6	1.6	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
109-99-9	Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.68	0.68	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
108-88-3	<b>Toluene</b>	<b>15</b>		ug/m <sup>3</sup>	0.87	0.87	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.91	0.91	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	1.0	1.0	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
79-01-6	<b>Trichloroethylene</b>	<b>1.7</b>		ug/m <sup>3</sup>	0.62	0.62	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>2.5</b>		ug/m <sup>3</sup>	1.3	1.3	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.81	0.81	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.59	0.59	2.26	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 20:13	TD



### Sample Information

**Client Sample ID:** SG-02\_12

**York Sample ID:** 13D0888-02

<u>York Project (SDG) No.</u> 13D0888	<u>Client Project ID</u> 170157901	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> April 23, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	8.9	8.9	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	11	11	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	13	13	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	8.9	8.9	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-34-3	1,1-Dichloroethane	ND		ug/m³	6.6	6.6	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m³	6.5	6.5	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	12	12	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	8.0	8.0	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
106-93-4	1,2-Dibromoethane	ND		ug/m³	13	13	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	9.8	9.8	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
107-06-2	1,2-Dichloroethane	ND		ug/m³	6.6	6.6	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
78-87-5	1,2-Dichloropropane	ND		ug/m³	7.5	7.5	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	11	11	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	8.0	8.0	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
106-99-0	1,3-Butadiene	ND		ug/m³	7.1	7.1	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	9.8	9.8	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	9.8	9.8	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
123-91-1	1,4-Dioxane	ND		ug/m³	5.9	5.9	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
78-93-3	2-Butanone	ND		ug/m³	4.8	4.8	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
591-78-6	2-Hexanone	ND		ug/m³	6.7	6.7	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	6.7	6.7	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
67-64-1	<b>Acetone</b>	<b>57</b>		ug/m³	3.9	3.9	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
71-43-2	<b>Benzene</b>	<b>8.9</b>		ug/m³	5.2	5.2	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
100-44-7	Benzyl chloride	ND		ug/m³	8.4	8.4	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-27-4	Bromodichloromethane	ND		ug/m³	10	10	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-25-2	Bromoform	ND		ug/m³	17	17	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
74-83-9	Bromomethane	ND		ug/m³	6.3	6.3	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-15-0	<b>Carbon disulfide</b>	<b>210</b>		ug/m³	5.1	5.1	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
56-23-5	Carbon tetrachloride	ND		ug/m³	5.1	5.1	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
108-90-7	Chlorobenzene	ND		ug/m³	7.5	7.5	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-00-3	Chloroethane	ND		ug/m³	4.3	4.3	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
67-66-3	Chloroform	ND		ug/m³	8.0	8.0	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD



### Sample Information

**Client Sample ID:** SG-02\_12

**York Sample ID:** 13D0888-02

<u>York Project (SDG) No.</u> 13D0888	<u>Client Project ID</u> 170157901	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> April 23, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.4	3.4	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	6.5	6.5	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.4	7.4	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	5.6	5.6	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	13	13	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	8.1	8.1	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
141-78-6	Ethyl acetate	ND		ug/m <sup>3</sup>	5.9	5.9	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	7.1	7.1	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	17	17	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
67-63-0	<b>Isopropanol</b>	<b>760</b>		ug/m <sup>3</sup>	4.0	4.0	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	6.7	6.7	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	5.9	5.9	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-09-2	<b>Methylene chloride</b>	<b>23</b>		ug/m <sup>3</sup>	5.7	5.7	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	6.7	6.7	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	5.8	5.8	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	7.1	7.1	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>12</b>		ug/m <sup>3</sup>	7.1	7.1	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
622-96-8	p-Ethyltoluene	ND		ug/m <sup>3</sup>	40	40	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
115-07-01	Propylene	ND		ug/m <sup>3</sup>	2.8	2.8	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	6.9	6.9	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
127-18-4	<b>Tetrachloroethylene</b>	<b>65</b>		ug/m <sup>3</sup>	11	11	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
109-99-9	Tetrahydrofuran	ND		ug/m <sup>3</sup>	4.8	4.8	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
108-88-3	<b>Toluene</b>	<b>21</b>		ug/m <sup>3</sup>	6.1	6.1	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	6.5	6.5	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	7.4	7.4	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
79-01-6	<b>Trichloroethylene</b>	<b>7.9</b>		ug/m <sup>3</sup>	4.4	4.4	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	9.2	9.2	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	5.7	5.7	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.2	4.2	16.04	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:00	TD



### Sample Information

**Client Sample ID:** SG-03\_12

**York Sample ID:** 13D0888-03

<u>York Project (SDG) No.</u> 13D0888	<u>Client Project ID</u> 170157901	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> April 24, 2013 12:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m <sup>3</sup>	13	13	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	14	14	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	10	10	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	7.5	7.5	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	7.3	7.3	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m <sup>3</sup>	14	14	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.1	9.1	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	14	14	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
95-50-1	1,2-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	7.5	7.5	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	8.5	8.5	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	13	13	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m <sup>3</sup>	9.1	9.1	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	8.0	8.0	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
541-73-1	1,3-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
106-46-7	1,4-Dichlorobenzene	ND		ug/m <sup>3</sup>	11	11	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	6.6	6.6	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
78-93-3	<b>2-Butanone</b>	<b>34</b>		ug/m <sup>3</sup>	5.4	5.4	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
591-78-6	2-Hexanone	ND		ug/m <sup>3</sup>	7.6	7.6	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	7.6	7.6	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
67-64-1	<b>Acetone</b>	<b>1100</b>		ug/m <sup>3</sup>	11	11	45.325	EPA Compendium TO-15	04/26/2013 09:00	04/30/2013 07:28	TD
71-43-2	Benzene	ND		ug/m <sup>3</sup>	5.9	5.9	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
100-44-7	Benzyl chloride	ND		ug/m <sup>3</sup>	9.5	9.5	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	11	11	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-25-2	Bromoform	ND		ug/m <sup>3</sup>	19	19	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	7.2	7.2	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	5.7	5.7	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	5.8	5.8	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
108-90-7	<b>Chlorobenzene</b>	<b>24</b>		ug/m <sup>3</sup>	8.5	8.5	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	4.9	4.9	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	9.0	9.0	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD



### Sample Information

**Client Sample ID:** SG-03\_12

**York Sample ID:** 13D0888-03

<u>York Project (SDG) No.</u> 13D0888	<u>Client Project ID</u> 170157901	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> April 24, 2013 12:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	3.8	3.8	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.3	7.3	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.4	8.4	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	6.3	6.3	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	15	15	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-71-8	Dichlorodifluoromethane	ND		ug/m <sup>3</sup>	9.1	9.1	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
141-78-6	Ethyl acetate	ND		ug/m <sup>3</sup>	6.6	6.6	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
100-41-4	Ethyl Benzene	ND		ug/m <sup>3</sup>	8.0	8.0	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
87-68-3	Hexachlorobutadiene	ND		ug/m <sup>3</sup>	20	20	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
67-63-0	<b>Isopropanol</b>	<b>51</b>		ug/m <sup>3</sup>	4.5	4.5	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	7.5	7.5	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	6.6	6.6	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-09-2	Methylene chloride	ND		ug/m <sup>3</sup>	6.4	6.4	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	7.6	7.6	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
110-54-3	n-Hexane	ND		ug/m <sup>3</sup>	6.5	6.5	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
95-47-6	o-Xylene	ND		ug/m <sup>3</sup>	8.0	8.0	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>16</b>		ug/m <sup>3</sup>	8.0	8.0	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
622-96-8	p-Ethyltoluene	ND		ug/m <sup>3</sup>	45	45	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
115-07-01	Propylene	ND		ug/m <sup>3</sup>	3.2	3.2	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
100-42-5	Styrene	ND		ug/m <sup>3</sup>	7.9	7.9	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
127-18-4	Tetrachloroethylene	ND		ug/m <sup>3</sup>	13	13	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
109-99-9	Tetrahydrofuran	ND		ug/m <sup>3</sup>	5.4	5.4	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
108-88-3	<b>Toluene</b>	<b>12</b>		ug/m <sup>3</sup>	6.9	6.9	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	7.3	7.3	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	8.4	8.4	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
79-01-6	Trichloroethylene	ND		ug/m <sup>3</sup>	5.0	5.0	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m <sup>3</sup>	10	10	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	6.5	6.5	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	4.7	4.7	18.13	EPA Compendium TO-15	04/26/2013 09:00	04/26/2013 21:47	TD



## Notes and Definitions

- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- QCAL This analyte is outside calibration QC limits due to the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.

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ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

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# Technical Report

prepared for:

**Langan Engineering & Environmental Services (NYC)**

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

**Attention: Daniel Carrus**

Report Date: 05/01/2013

**Client Project ID: 170157901 (H4H)**

York Project (SDG) No.: 13D0880

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

**Langan Engineering & Environmental Services (NYC)**  
21 Penn Plaza, 360 West 31st Street  
New York NY, 10001  
Attention: Daniel Carrus

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on April 24, 2013 and listed below. The project was identified as your project: **170157901 (H4H)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13D0880-01	MW-03_1-2	Soil	04/23/2013	04/24/2013
13D0880-02	MW-03_11-12	Soil	04/23/2013	04/24/2013
13D0880-03	SB-08_1-2	Soil	04/23/2013	04/24/2013
13D0880-04	SB-08_11-12	Soil	04/23/2013	04/24/2013
13D0880-05	MW-02_1-2	Soil	04/24/2013	04/24/2013
13D0880-06	MW-02_11-12	Soil	04/24/2013	04/24/2013
13D0880-07	SB-04_1-2	Soil	04/24/2013	04/24/2013
13D0880-08	SB-04_11-12	Soil	04/24/2013	04/24/2013
13D0880-09	SB-06_1-2	Soil	04/24/2013	04/24/2013
13D0880-10	MW-07_1-2	Soil	04/24/2013	04/24/2013
13D0880-11	MW-07_11-12	Soil	04/24/2013	04/24/2013
13D0880-12	MW-03_0-2	Soil	04/24/2013	04/24/2013
13D0880-13	MW-03_10-12	Soil	04/24/2013	04/24/2013
13D0880-16	MW-02_0-2	Soil	04/24/2013	04/24/2013
13D0880-17	MW-02_10-12	Soil	04/24/2013	04/24/2013
13D0880-18	SB-04_0-2	Soil	04/24/2013	04/24/2013
13D0880-19	SB-04_10-12	Soil	04/24/2013	04/24/2013
13D0880-20	SB-06_0-2	Soil	04/24/2013	04/24/2013
13D0880-21	SB-06_10-12	Soil	04/24/2013	04/24/2013
13D0880-22	MW-07_0-2	Soil	04/24/2013	04/24/2013
13D0880-23	MW-07_10-12	Soil	04/24/2013	04/24/2013
13D0880-24	SB-06_11-12	Soil	04/24/2013	04/24/2013

**General Notes for York Project (SDG) No.: 13D0880**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

**Approved By:**



**Benjamin Gulizia**  
Laboratory Director

**Date:** 05/01/2013

**YORK**



### Sample Information

**Client Sample ID:** MW-03\_1-2

**York Sample ID:** 13D0880-01

York Project (SDG) No.  
13D0880

Client Project ID  
170157901 (H4H)

Matrix  
Soil

Collection Date/Time  
April 23, 2013 3:00 pm

Date Received  
04/24/2013

**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	9.0	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	9.0	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.3	9.0	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	9.0	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
67-64-1	Acetone	ND		ug/kg dry	2.3	9.0	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
71-43-2	Benzene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS



### Sample Information

Client Sample ID: MW-03\_1-2

York Sample ID: 13D0880-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 23, 2013 3:00 pm

04/24/2013

### Volatile Organics, TCL (Target Compound List)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-09-2	Methylene chloride	2.3	J	ug/kg dry	2.3	9.0	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
91-20-3	Naphthalene	2.6	J	ug/kg dry	2.3	9.0	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.3	9.0	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
100-42-5	Styrene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
108-88-3	Toluene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.3	14	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:20	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	73-130								
460-00-4	Surrogate: p-Bromofluorobenzene	99.9 %	72-127								
2037-26-5	Surrogate: Toluene-d8	98.5 %	84-117								

### Total Solids

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.2		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC

### Sample Information

Client Sample ID: MW-03\_11-12

York Sample ID: 13D0880-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 23, 2013 3:00 pm

04/24/2013

### Volatile Organics, TCL (Target Compound List)

### Log-in Notes:

### Sample Notes:



### Sample Information

**Client Sample ID:** MW-03\_11-12

**York Sample ID:** 13D0880-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 23, 2013 3:00 pm

04/24/2013

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
67-64-1	Acetone	7.1	J	ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
71-43-2	Benzene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
74-83-9	Bromomethane	3.0	J	ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-09-2	Methylene chloride	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS



### Sample Information

Client Sample ID: MW-03\_11-12

York Sample ID: 13D0880-02

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 23, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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#### Volatile Organics, TCL (Target Compound List)

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
100-42-5	Styrene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
108-88-3	Toluene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.7	16	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 15:58	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %			73-130						
460-00-4	Surrogate: p-Bromofluorobenzene	101 %			72-127						
2037-26-5	Surrogate: Toluene-d8	97.8 %			84-117						

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.1		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC

### Sample Information

Client Sample ID: SB-08\_1-2

York Sample ID: 13D0880-03

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 23, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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#### Volatile Organics, TCL (Target Compound List)

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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## Sample Information

**Client Sample ID:** SB-08\_1-2

**York Sample ID:** 13D0880-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 23, 2013 3:00 pm

04/24/2013

**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.6	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
67-64-1	Acetone	ND		ug/kg dry	2.6	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 16:36	SS



Sample Information

Client Sample ID: SB-08\_1-2

York Sample ID: 13D0880-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 23, 2013 3:00 pm

04/24/2013

Volatile Organics, TCL (Target Compound List)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various compounds like Methyl tert-butyl ether, Methylene chloride, Naphthalene, etc.

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Shows % Solids result.

Sample Information

Client Sample ID: SB-08\_11-12

York Sample ID: 13D0880-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 23, 2013 3:00 pm

04/24/2013

Volatile Organics, TCL (Target Compound List)

Log-in Notes:

Sample Notes:



### Sample Information

**Client Sample ID:** SB-08\_11-12

**York Sample ID:** 13D0880-04

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 23, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	9.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	9.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.4	9.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	9.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
67-64-1	Acetone	7.1	J	ug/kg dry	2.4	9.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
71-43-2	Benzene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-09-2	Methylene chloride	2.5	J	ug/kg dry	2.4	9.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS



### Sample Information

**Client Sample ID:** SB-08\_11-12

**York Sample ID:** 13D0880-04

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 23, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	2.4	9.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.4	9.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
100-42-5	Styrene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
108-88-3	Toluene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.8	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.4	14	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:14	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %			73-130						
460-00-4	Surrogate: p-Bromofluorobenzene	103 %			72-127						
2037-26-5	Surrogate: Toluene-d8	97.8 %			84-117						

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	94.9		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC

### Sample Information

**Client Sample ID:** MW-02\_1-2

**York Sample ID:** 13D0880-05

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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## Sample Information

**Client Sample ID:** MW-02\_1-2

**York Sample ID:** 13D0880-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
67-64-1	Acetone	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
71-43-2	Benzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS



### Sample Information

**Client Sample ID:** MW-02\_1-2

**York Sample ID:** 13D0880-05

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-09-2	Methylene chloride	2.5	J	ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
100-42-5	Styrene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
108-88-3	Toluene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.3	14	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 17:52	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %			73-130						
460-00-4	Surrogate: p-Bromofluorobenzene	109 %			72-127						
2037-26-5	Surrogate: Toluene-d8	100 %			84-117						

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	94.0		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC

### Sample Information

**Client Sample ID:** MW-02\_11-12

**York Sample ID:** 13D0880-06

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** MW-02\_11-12

**York Sample ID:** 13D0880-06

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
67-64-1	Acetone	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS



### Sample Information

**Client Sample ID:** MW-02\_11-12

**York Sample ID:** 13D0880-06

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	3.3	J	ug/kg dry	2.8	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.8	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
100-42-5	Styrene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
108-88-3	Toluene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.8	17	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 18:31	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %	73-130								
460-00-4	Surrogate: p-Bromofluorobenzene	100 %	72-127								
2037-26-5	Surrogate: Toluene-d8	96.6 %	84-117								

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.9		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC

### Sample Information

**Client Sample ID:** SB-04\_1-2

**York Sample ID:** 13D0880-07

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** SB-04\_1-2

**York Sample ID:** 13D0880-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.6	14	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.6	14	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
78-93-3	2-Butanone	ND		ug/kg dry	3.6	14	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
591-78-6	2-Hexanone	ND		ug/kg dry	3.6	14	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
67-64-1	Acetone	21		ug/kg dry	3.6	14	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
71-43-2	Benzene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
75-25-2	Bromoform	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
74-83-9	Bromomethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
75-00-3	Chloroethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
67-66-3	Chloroform	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
74-87-3	Chloromethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS



### Sample Information

Client Sample ID: SB-04\_1-2

York Sample ID: 13D0880-07

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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#### Volatile Organics, TCL (Target Compound List)

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/kg dry	3.6	14	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
91-20-3	Naphthalene	ND		ug/kg dry	3.6	14	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
95-47-6	o-Xylene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.6	14	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
100-42-5	Styrene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
108-88-3	Toluene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.6	7.2	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	3.6	22	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 13:55	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	113 %			73-130						
460-00-4	Surrogate: p-Bromofluorobenzene	105 %			72-127						
2037-26-5	Surrogate: Toluene-d8	99.5 %			84-117						

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.7		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC

### Sample Information

Client Sample ID: SB-04\_11-12

York Sample ID: 13D0880-08

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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#### Volatile Organics, TCL (Target Compound List)

#### Log-in Notes:

#### Sample Notes:



### Sample Information

**Client Sample ID:** SB-04\_11-12

**York Sample ID:** 13D0880-08

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
67-64-1	Acetone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS



### Sample Information

**Client Sample ID:** SB-04\_11-12

**York Sample ID:** 13D0880-08

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	2.7	J	ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
100-42-5	Styrene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.7	16	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 19:47	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %		73-130							
460-00-4	Surrogate: p-Bromofluorobenzene	101 %		72-127							
2037-26-5	Surrogate: Toluene-d8	96.6 %		84-117							

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.9		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC

### Sample Information

**Client Sample ID:** SB-06\_1-2

**York Sample ID:** 13D0880-09

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** SB-06\_1-2

**York Sample ID:** 13D0880-09

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
67-64-1	Acetone	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
71-43-2	Benzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS



### Sample Information

**Client Sample ID:** SB-06\_1-2

**York Sample ID:** 13D0880-09

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	2.3	J	ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.3	9.1	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
100-42-5	Styrene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
108-88-3	Toluene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.6	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.3	14	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 20:25	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	73-130								
460-00-4	Surrogate: p-Bromofluorobenzene	98.6 %	72-127								
2037-26-5	Surrogate: Toluene-d8	97.9 %	84-117								

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.3		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC

### Sample Information

**Client Sample ID:** MW-07\_1-2

**York Sample ID:** 13D0880-10

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** MW-07\_1-2

**York Sample ID:** 13D0880-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	9.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	9.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.3	9.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	9.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
67-64-1	Acetone	ND		ug/kg dry	2.3	9.3	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
71-43-2	Benzene	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.7	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:03	SS



Sample Information

Client Sample ID: MW-07\_1-2

York Sample ID: 13D0880-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

Volatile Organics, TCL (Target Compound List)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various compounds like Methylene chloride, Naphthalene, etc.

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Shows % Solids result.

Sample Information

Client Sample ID: MW-07\_11-12

York Sample ID: 13D0880-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

Volatile Organics, TCL (Target Compound List)

Log-in Notes:

Sample Notes:



### Sample Information

**Client Sample ID:** MW-07\_11-12

**York Sample ID:** 13D0880-11

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
67-64-1	Acetone	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
71-43-2	Benzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS



### Sample Information

**Client Sample ID:** MW-07\_11-12

**York Sample ID:** 13D0880-11

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	3.0	J	ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.7	11	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
100-42-5	Styrene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
108-88-3	Toluene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.5	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	2.7	16	1	EPA SW846-8260B	04/25/2013 12:50	04/25/2013 21:41	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %	73-130								
460-00-4	Surrogate: p-Bromofluorobenzene	100 %	72-127								
2037-26-5	Surrogate: Toluene-d8	97.4 %	84-117								

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	78.8		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC

### Sample Information

**Client Sample ID:** MW-03\_0-2

**York Sample ID:** 13D0880-12

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**



## Sample Information

**Client Sample ID:** MW-03\_0-2

**York Sample ID:** 13D0880-12

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	1980	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	2630	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
120-12-7	Anthracene	ND		ug/kg dry	2990	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
56-55-3	Benzo(a)anthracene	<b>15600</b>		ug/kg dry	2050	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
50-32-8	Benzo(a)pyrene	<b>21600</b>		ug/kg dry	2170	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
65-85-0	Benzoic acid	ND		ug/kg dry	3750	11000	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
205-99-2	Benzo(b)fluoranthene	<b>21900</b>		ug/kg dry	4590	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
191-24-2	Benzo(g,h,i)perylene	<b>4800</b>	J	ug/kg dry	1820	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	5480	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
207-08-9	Benzo(k)fluoranthene	<b>16000</b>		ug/kg dry	5480	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	3030	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	2640	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	3700	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	1430	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1890	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	2800	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1930	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	3780	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	2960	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	1810	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	3210	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
218-01-9	Chrysene	<b>19700</b>		ug/kg dry	2520	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	2200	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	2550	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	2230	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3590	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3380	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1730	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	2870	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	4470	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	3440	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	3840	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	2450	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	6910	11000	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR



### Sample Information

**Client Sample ID:** MW-03\_0-2

**York Sample ID:** 13D0880-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		ug/kg dry	4780	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	4610	11000	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	2820	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	2420	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	5480	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
206-44-0	Fluoranthene	<b>29300</b>		ug/kg dry	3210	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
86-73-7	Fluorene	ND		ug/kg dry	2630	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	3230	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1850	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	4080	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	1570	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
193-39-5	Indeno(1,2,3-cd)pyrene	<b>4800</b>	J	ug/kg dry	2500	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
78-59-1	Isophorone	ND		ug/kg dry	1890	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	4210	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	2080	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	2380	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
91-20-3	Naphthalene	ND		ug/kg dry	1350	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	5450	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	2270	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	1610	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	2060	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	1490	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	1830	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	2480	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	4130	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
85-01-8	Phenanthrene	<b>16000</b>		ug/kg dry	2860	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
108-95-2	Phenol	ND		ug/kg dry	2370	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
129-00-0	Pyrene	<b>40100</b>		ug/kg dry	2240	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1980	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	4250	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	2790	5480	20	EPA SW846-8270C	04/26/2013 06:50	04/29/2013 22:17	SR
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
5175-83-7	Surrogate: 2,4,6-Tribromophenol	36.3 %		15-110							



### Sample Information

**Client Sample ID:** MW-03\_0-2

**York Sample ID:** 13D0880-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
321-60-8	Surrogate: 2-Fluorobiphenyl	42.3 %			30-130						
367-12-4	Surrogate: 2-Fluorophenol	43.5 %			15-110						
4165-60-0	Surrogate: Nitrobenzene-d5	4.40 %	S-06		30-130						
4165-62-2	Surrogate: Phenol-d5	49.0 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	%	S-06		30-130						

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	137	137	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.6	13.6	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
72-20-8	Endrin	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
57-74-9	Chlordane, total	ND		ug/kg dry	10.9	10.9	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
309-00-2	Aldrin	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
50-29-3	4,4'-DDT	6.25		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
72-54-8	4,4'-DDD	ND		ug/kg dry	2.71	2.71	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	280	280	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:04	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	280	280	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:04	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	280	280	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:04	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	280	280	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:04	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	280	280	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:04	JW



### Sample Information

**Client Sample ID:** MW-03\_0-2

**York Sample ID:** 13D0880-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		ug/kg dry	280	280	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:04	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	280	280	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:04	JW
1336-36-3	Total PCBs	ND		ug/kg dry	112	280	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:04	JW
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
877-09-8	Surrogate: Tetrachloro-m-xylene	91.4 %			30-150						
2051-24-3	Surrogate: Decachlorobiphenyl	74.5 %			30-150						

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10500		mg/kg dry	1.12	2.19	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-36-0	Antimony	ND		mg/kg dry	0.241	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-38-2	Arsenic	5.03		mg/kg dry	0.373	1.10	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-39-3	Barium	209		mg/kg dry	0.143	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.110	0.110	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.110	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-70-2	Calcium	2910		mg/kg dry	0.044	5.48	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-47-3	Chromium	14.6		mg/kg dry	0.132	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-48-4	Cobalt	4.77		mg/kg dry	0.088	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-50-8	Copper	24.4		mg/kg dry	0.132	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7439-89-6	Iron	14100		mg/kg dry	0.713	2.19	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7439-92-1	Lead	352		mg/kg dry	0.186	0.329	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7439-95-4	Magnesium	1740		mg/kg dry	0.493	5.48	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7439-96-5	Manganese	308		mg/kg dry	0.121	1.10	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-02-0	Nickel	10.7		mg/kg dry	0.143	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-09-7	Potassium	749		mg/kg dry	3.71	11.0	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7782-49-2	Selenium	1.93		mg/kg dry	0.548	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-22-4	Silver	ND		mg/kg dry	0.110	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-23-5	Sodium	196		mg/kg dry	5.78	11.0	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-28-0	Thallium	ND		mg/kg dry	0.351	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-62-2	Vanadium	20.7		mg/kg dry	0.121	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW
7440-66-6	Zinc	169		mg/kg dry	0.099	0.548	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 18:49	MW



Sample Information

Client Sample ID: MW-03\_0-2

York Sample ID: 13D0880-12

York Project (SDG) No. 13D0880 Client Project ID 170157901 (H4H) Matrix Soil Collection Date/Time April 24, 2013 3:00 pm Date Received 04/24/2013

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-97-6, Mercury, ND, mg/kg dry, 0.103, 0.110, 1, EPA SW846-7471, 04/26/2013 12:43, 04/26/2013 17:45, AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, % Solids, 91.2, %, 0.100, 0.100, 1, SM 2540G, 04/26/2013 09:01, 04/26/2013 09:01, AMC

Sample Information

Client Sample ID: MW-03\_10-12

York Sample ID: 13D0880-13

York Project (SDG) No. 13D0880 Client Project ID 170157901 (H4H) Matrix Soil Collection Date/Time April 24, 2013 3:00 pm Date Received 04/24/2013

Semi-Volatiles, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include: 83-32-9 Acenaphthene, 208-96-8 Acenaphthylene, 120-12-7 Anthracene, 56-55-3 Benzo(a)anthracene, 50-32-8 Benzo(a)pyrene, 65-85-0 Benzoic acid, 205-99-2 Benzo(b)fluoranthene, 191-24-2 Benzo(g,h,i)perylene, 100-51-6 Benzyl alcohol, 207-08-9 Benzo(k)fluoranthene, 85-68-7 Benzyl butyl phthalate, 101-55-3 4-Bromophenyl phenyl ether, 59-50-7 4-Chloro-3-methylphenol, 106-47-8 4-Chloroaniline, 111-91-1 Bis(2-chloroethoxy)methane, 111-44-4 Bis(2-chloroethyl)ether, 108-60-1 Bis(2-chloroisopropyl)ether, 117-81-7 Bis(2-ethylhexyl)phthalate, 91-58-7 2-Chloronaphthalene



### Sample Information

**Client Sample ID:** MW-03\_10-12

**York Sample ID:** 13D0880-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-57-8	2-Chlorophenol	ND		ug/kg dry	90.6	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	161	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
218-01-9	Chrysene	<b>705</b>		ug/kg dry	126	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	110	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	128	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	111	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	180	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	169	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	86.8	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	144	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	224	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	172	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	192	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	122	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	346	549	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	239	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	231	549	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	141	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	121	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	275	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
206-44-0	Fluoranthene	<b>1130</b>		ug/kg dry	161	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
86-73-7	Fluorene	ND		ug/kg dry	132	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	162	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.8	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	204	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	78.5	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	125	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
78-59-1	Isophorone	ND		ug/kg dry	94.4	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	211	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	104	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	119	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
91-20-3	Naphthalene	<b>78.5</b>	J	ug/kg dry	67.5	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR



### Sample Information

**Client Sample ID:** MW-03\_10-12

**York Sample ID:** 13D0880-13

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	273	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	114	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	80.7	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	103	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	74.7	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	91.7	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	124	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	207	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
85-01-8	Phenanthrene	1000		ug/kg dry	143	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
108-95-2	Phenol	ND		ug/kg dry	119	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
129-00-0	Pyrene	1640		ug/kg dry	112	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	99.4	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	213	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	139	275	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 17:52	SR
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
5175-83-7	Surrogate: 2,4,6-Tribromophenol	77.6 %			15-110						
321-60-8	Surrogate: 2-Fluorobiphenyl	69.9 %			30-130						
367-12-4	Surrogate: 2-Fluorophenol	50.9 %			15-110						
4165-60-0	Surrogate: Nitrobenzene-d5	47.2 %			30-130						
4165-62-2	Surrogate: Phenol-d5	90.3 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	107 %			30-130						

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	138	138	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.6	13.6	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
72-20-8	Endrin	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW



### Sample Information

**Client Sample ID:** MW-03\_10-12

**York Sample ID:** 13D0880-13

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
57-74-9	Chlordane, total	ND		ug/kg dry	10.9	10.9	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
309-00-2	Aldrin	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
72-54-8	4,4'-DDD	ND		ug/kg dry	2.72	2.72	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:37	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	28.0	28.0	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:24	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	28.0	28.0	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:24	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	28.0	28.0	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:24	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	28.0	28.0	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:24	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	28.0	28.0	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:24	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	28.0	28.0	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:24	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	28.0	28.0	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:24	JW
1336-36-3	Total PCBs	ND		ug/kg dry	11.2	28.0	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:24	JW
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
877-09-8	Surrogate: Tetrachloro-m-xylene	108 %			30-150						
2051-24-3	Surrogate: Decachlorobiphenyl	133 %			30-150						

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9220		mg/kg dry	1.12	2.20	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-36-0	Antimony	ND		mg/kg dry	0.242	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-38-2	Arsenic	4.53		mg/kg dry	0.373	1.10	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-39-3	Barium	103		mg/kg dry	0.143	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.110	0.110	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.110	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-70-2	Calcium	1330		mg/kg dry	0.044	5.49	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-47-3	Chromium	24.8		mg/kg dry	0.132	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-48-4	Cobalt	8.43		mg/kg dry	0.088	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW



### Sample Information

**Client Sample ID:** MW-03\_10-12

**York Sample ID:** 13D0880-13

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	26.4		mg/kg dry	0.132	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7439-89-6	Iron	32700		mg/kg dry	0.714	2.20	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7439-92-1	Lead	47.9		mg/kg dry	0.187	0.329	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7439-95-4	Magnesium	2860		mg/kg dry	0.494	5.49	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7439-96-5	Manganese	462		mg/kg dry	0.121	1.10	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-02-0	Nickel	14.1		mg/kg dry	0.143	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-09-7	Potassium	2440		mg/kg dry	3.71	11.0	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7782-49-2	Selenium	2.09		mg/kg dry	0.549	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-22-4	Silver	ND		mg/kg dry	0.110	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-23-5	Sodium	198		mg/kg dry	5.79	11.0	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-28-0	Thallium	ND		mg/kg dry	0.351	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-62-2	Vanadium	42.0		mg/kg dry	0.121	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW
7440-66-6	Zinc	61.6		mg/kg dry	0.099	0.549	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:06	MW

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.103	0.110	1	EPA SW846-7471	04/26/2013 12:43	04/26/2013 17:45	AA

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.1		%	0.100	0.100	1	SM 2540G	04/26/2013 09:01	04/26/2013 09:01	AMC

### Sample Information

**Client Sample ID:** MW-02\_0-2

**York Sample ID:** 13D0880-16

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	963	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1280	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
120-12-7	Anthracene	ND		ug/kg dry	1450	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR



## Sample Information

**Client Sample ID:** MW-02\_0-2

**York Sample ID:** 13D0880-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	995	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	1050	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
65-85-0	Benzoic acid	ND		ug/kg dry	1820	5320	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	2230	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	883	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	2660	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	2660	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1470	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1280	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1790	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	692	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	915	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1360	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	936	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	1840	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1440	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	878	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1560	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
218-01-9	Chrysene	ND		ug/kg dry	1220	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1070	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1240	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1080	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1740	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1640	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	841	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1390	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	2170	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1670	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	1860	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1190	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2320	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	3350	5320	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR



### Sample Information

**Client Sample ID:** MW-02\_0-2

**York Sample ID:** 13D0880-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	2230	5320	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1370	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1180	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	2660	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
206-44-0	Fluoranthene	ND		ug/kg dry	1560	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
86-73-7	Fluorene	ND		ug/kg dry	1280	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1570	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	899	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1980	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	761	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	1210	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
78-59-1	Isophorone	ND		ug/kg dry	915	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2040	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1010	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1150	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
91-20-3	Naphthalene	ND		ug/kg dry	654	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2640	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1100	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	782	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	1000	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	724	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	888	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1200	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	2010	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
85-01-8	Phenanthrene	ND		ug/kg dry	1390	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
108-95-2	Phenol	ND		ug/kg dry	1150	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
129-00-0	Pyrene	<b>1220</b>	J	ug/kg dry	1090	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	963	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	2060	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1350	2660	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:24	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
5175-83-7	Surrogate: 2,4,6-Tribromophenol	39.3 %	15-110								
321-60-8	Surrogate: 2-Fluorobiphenyl	46.3 %	30-130								



### Sample Information

**Client Sample ID:** MW-02\_0-2

**York Sample ID:** 13D0880-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
367-12-4	Surrogate: 2-Fluorophenol	42.5 %			15-110						
4165-60-0	Surrogate: Nitrobenzene-d5	19.4 %	S-06		30-130						
4165-62-2	Surrogate: Phenol-d5	55.9 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	65.2 %			30-130						

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	133	133	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.2	13.2	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
72-20-8	Endrin	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
57-74-9	Chlordane, total	<b>21.3</b>		ug/kg dry	10.5	10.5	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
309-00-2	Aldrin	ND		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
50-29-3	4,4'-DDT	<b>96.4</b>		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
72-55-9	4,4'-DDE	<b>28.3</b>		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
72-54-8	4,4'-DDD	<b>5.07</b>		ug/kg dry	2.63	2.63	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	27.1	27.1	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:43	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	27.1	27.1	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:43	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	27.1	27.1	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:43	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	27.1	27.1	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:43	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	27.1	27.1	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:43	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	27.1	27.1	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:43	JW



### Sample Information

**Client Sample ID:** MW-02\_0-2

**York Sample ID:** 13D0880-16

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/kg dry	27.1	27.1	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 17:43	JW
1336-36-3	Total PCBs	ND		ug/kg dry	54.3	136	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:52	JW
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
877-09-8	<i>Surrogate: Tetrachloro-m-xylene</i>	94.2 %			30-150						
2051-24-3	<i>Surrogate: Decachlorobiphenyl</i>	101 %			30-150						

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7200		mg/kg dry	1.09	2.13	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-36-0	Antimony	0.546		mg/kg dry	0.234	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-38-2	Arsenic	3.39		mg/kg dry	0.362	1.06	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-39-3	Barium	134		mg/kg dry	0.138	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.106	0.106	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.106	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-70-2	Calcium	4750		mg/kg dry	0.043	5.32	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-47-3	Chromium	16.3		mg/kg dry	0.128	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-48-4	Cobalt	5.98		mg/kg dry	0.085	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-50-8	Copper	27.2		mg/kg dry	0.128	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7439-89-6	Iron	17500		mg/kg dry	0.692	2.13	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7439-92-1	Lead	104		mg/kg dry	0.181	0.319	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7439-95-4	Magnesium	2150		mg/kg dry	0.479	5.32	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7439-96-5	Manganese	319		mg/kg dry	0.117	1.06	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-02-0	Nickel	12.8		mg/kg dry	0.138	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-09-7	Potassium	1140		mg/kg dry	3.60	10.6	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7782-49-2	Selenium	1.92		mg/kg dry	0.532	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-22-4	Silver	ND		mg/kg dry	0.106	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-23-5	Sodium	164		mg/kg dry	5.61	10.6	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-28-0	Thallium	ND		mg/kg dry	0.340	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-62-2	Vanadium	25.4		mg/kg dry	0.117	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW
7440-66-6	Zinc	115		mg/kg dry	0.096	0.532	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:33	MW



### Sample Information

**Client Sample ID:** MW-02\_0-2

**York Sample ID:** 13D0880-16

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.100	0.106	1	EPA SW846-7471	04/26/2013 12:43	04/26/2013 17:45	AA

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	94.0		%	0.100	0.100	1	SM 2540G	04/26/2013 09:01	04/26/2013 09:01	AMC

### Sample Information

**Client Sample ID:** MW-02\_10-12

**York Sample ID:** 13D0880-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	1020	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1350	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
120-12-7	Anthracene	ND		ug/kg dry	1540	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	1050	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	1110	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
65-85-0	Benzoic acid	ND		ug/kg dry	1920	5620	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	2360	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	933	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	2810	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	2810	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1550	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1360	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1890	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	731	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	967	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1430	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	990	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	1940	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR



## Sample Information

**Client Sample ID:** MW-02\_10-12

**York Sample ID:** 13D0880-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

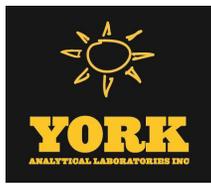
**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1520	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	928	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1650	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
218-01-9	Chrysene	ND		ug/kg dry	1290	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1130	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1310	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1140	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1840	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1730	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	888	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1470	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	2290	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1770	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	1970	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1250	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2450	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	3540	5620	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	2360	5620	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1450	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1240	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	2810	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
206-44-0	Fluoranthene	ND		ug/kg dry	1650	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
86-73-7	Fluorene	ND		ug/kg dry	1350	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1660	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	950	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	2090	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	804	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	1280	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
78-59-1	Isophorone	ND		ug/kg dry	967	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2160	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1070	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1220	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR



### Sample Information

**Client Sample ID:** MW-02\_10-12

**York Sample ID:** 13D0880-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	692	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2790	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1160	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	827	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	1060	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	765	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	939	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1270	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	2120	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
85-01-8	Phenanthrene	ND		ug/kg dry	1470	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
108-95-2	Phenol	ND		ug/kg dry	1210	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
129-00-0	Pyrene	ND		ug/kg dry	1150	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1020	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	2180	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1430	2810	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 18:55	SR
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
5175-83-7	Surrogate: 2,4,6-Tribromophenol	29.9 %			15-110						
321-60-8	Surrogate: 2-Fluorobiphenyl	57.7 %			30-130						
367-12-4	Surrogate: 2-Fluorophenol	5.07 %	S-06		15-110						
4165-60-0	Surrogate: Nitrobenzene-d5	38.6 %			30-130						
4165-62-2	Surrogate: Phenol-d5	34.6 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	67.6 %			30-130						

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	141	141	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.9	13.9	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
72-20-8	Endrin	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW



### Sample Information

**Client Sample ID:** MW-02\_10-12

**York Sample ID:** 13D0880-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
57-74-9	Chlordane, total	ND		ug/kg dry	11.1	11.1	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
309-00-2	Aldrin	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
50-29-3	4,4'-DDT	<b>4.59</b>		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
72-54-8	4,4'-DDD	ND		ug/kg dry	2.78	2.78	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:07	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	28.7	28.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:03	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	28.7	28.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:03	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	28.7	28.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:03	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	28.7	28.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:03	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	28.7	28.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:03	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	28.7	28.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:03	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	28.7	28.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:03	JW
1336-36-3	Total PCBs	ND		ug/kg dry	11.5	28.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:03	JW
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
877-09-8	<i>Surrogate: Tetrachloro-m-xylene</i>	92.9 %			30-150						
2051-24-3	<i>Surrogate: Decachlorobiphenyl</i>	120 %			30-150						

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	<b>4530</b>		mg/kg dry	1.15	2.25	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-36-0	Antimony	ND		mg/kg dry	0.247	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-38-2	Arsenic	<b>3.32</b>		mg/kg dry	0.382	1.12	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-39-3	Barium	<b>89.0</b>		mg/kg dry	0.146	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.112	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-70-2	Calcium	<b>2360</b>		mg/kg dry	0.045	5.62	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW



### Sample Information

Client Sample ID: MW-02\_10-12

York Sample ID: 13D0880-17

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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#### Metals, Target Analyte

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	34.7		mg/kg dry	0.135	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-48-4	Cobalt	4.53		mg/kg dry	0.090	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-50-8	Copper	18.1		mg/kg dry	0.135	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7439-89-6	Iron	20300		mg/kg dry	0.731	2.25	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7439-92-1	Lead	17.3		mg/kg dry	0.191	0.337	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7439-95-4	Magnesium	1270		mg/kg dry	0.506	5.62	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7439-96-5	Manganese	3020		mg/kg dry	0.124	1.12	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-02-0	Nickel	12.8		mg/kg dry	0.146	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-09-7	Potassium	856		mg/kg dry	3.80	11.2	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7782-49-2	Selenium	3.14		mg/kg dry	0.562	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-22-4	Silver	ND		mg/kg dry	0.112	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-23-5	Sodium	227		mg/kg dry	5.93	11.2	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-28-0	Thallium	ND		mg/kg dry	0.360	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-62-2	Vanadium	22.6		mg/kg dry	0.124	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW
7440-66-6	Zinc	45.0		mg/kg dry	0.101	0.562	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:38	MW

#### Mercury by 7470/7471

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.106	0.112	1	EPA SW846-7471	04/26/2013 12:43	04/26/2013 17:45	AA

#### Total Solids

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.9		%	0.100	0.100	1	SM 2540G	04/26/2013 09:01	04/26/2013 09:01	AMC

### Sample Information

Client Sample ID: SB-04\_0-2

York Sample ID: 13D0880-18

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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#### Semi-Volatiles, EPA TCL List

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	1070	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1420	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR



## Sample Information

**Client Sample ID:** SB-04\_0-2

**York Sample ID:** 13D0880-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	3030		ug/kg dry	1610	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
56-55-3	Benzo(a)anthracene	15700		ug/kg dry	1100	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
50-32-8	Benzo(a)pyrene	18700		ug/kg dry	1170	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
65-85-0	Benzoic acid	ND		ug/kg dry	2020	5900	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
205-99-2	Benzo(b)fluoranthene	19200		ug/kg dry	2470	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
191-24-2	Benzo(g,h,i)perylene	1350	J	ug/kg dry	980	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	2950	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
207-08-9	Benzo(k)fluoranthene	13600		ug/kg dry	2950	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1630	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1420	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1990	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	768	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1020	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1510	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1040	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
117-81-7	Bis(2-ethylhexyl)phthalate	20900		ug/kg dry	2040	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1590	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	974	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1730	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
218-01-9	Chrysene	17500		ug/kg dry	1360	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1190	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1380	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1200	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1930	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1820	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	933	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1550	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	2410	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1850	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	2070	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1320	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2570	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	3720	5900	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR



### Sample Information

**Client Sample ID:** SB-04\_0-2

**York Sample ID:** 13D0880-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	2480	5900	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1520	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1300	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	2950	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
206-44-0	Fluoranthene	<b>27200</b>		ug/kg dry	1730	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
86-73-7	Fluorene	ND		ug/kg dry	1420	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1740	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	998	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	2200	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	844	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
193-39-5	Indeno(1,2,3-cd)pyrene	<b>1970</b>	J	ug/kg dry	1350	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
78-59-1	Isophorone	ND		ug/kg dry	1020	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2270	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1120	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1280	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
91-20-3	Naphthalene	ND		ug/kg dry	726	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2930	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1220	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	868	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	1110	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	803	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	986	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1330	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	2230	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
85-01-8	Phenanthrene	<b>17100</b>		ug/kg dry	1540	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
108-95-2	Phenol	ND		ug/kg dry	1280	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
129-00-0	Pyrene	<b>34500</b>		ug/kg dry	1200	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1070	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	2290	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1500	2950	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:26	SR
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
5175-83-7	Surrogate: 2,4,6-Tribromophenol	23.3 %		15-110							
321-60-8	Surrogate: 2-Fluorobiphenyl	30.7 %		30-130							



### Sample Information

**Client Sample ID:** SB-04\_0-2

**York Sample ID:** 13D0880-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
367-12-4	Surrogate: 2-Fluorophenol	16.9 %			15-110						
4165-60-0	Surrogate: Nitrobenzene-d5	26.0 %	S-06		30-130						
4165-62-2	Surrogate: Phenol-d5	38.9 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	44.8 %			30-130						

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	148	148	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
72-43-5	Methoxychlor	ND		ug/kg dry	14.6	14.6	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
76-44-8	Heptachlor	<b>4.03</b>		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
72-20-8	Endrin	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
57-74-9	Chlordane, total	<b>185</b>		ug/kg dry	11.7	11.7	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
309-00-2	Aldrin	ND		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
50-29-3	4,4'-DDT	<b>134</b>		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
72-55-9	4,4'-DDE	<b>30.9</b>		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
72-54-8	4,4'-DDD	<b>47.8</b>		ug/kg dry	2.92	2.92	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:22	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	301	301	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:23	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	301	301	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:23	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	301	301	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:23	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	301	301	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:23	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	301	301	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:23	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	301	301	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:23	JW



### Sample Information

**Client Sample ID:** SB-04\_0-2

**York Sample ID:** 13D0880-18

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/kg dry	301	301	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:23	JW
1336-36-3	Total PCBs	ND		ug/kg dry	120	301	10	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:23	JW
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
877-09-8	Surrogate: Tetrachloro-m-xylene	110 %	30-150								
2051-24-3	Surrogate: Decachlorobiphenyl	105 %	30-150								

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8240		mg/kg dry	1.20	2.36	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-36-0	Antimony	1.77		mg/kg dry	0.260	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-38-2	Arsenic	7.89		mg/kg dry	0.401	1.18	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-39-3	Barium	951		mg/kg dry	0.154	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.118	0.118	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-43-9	Cadmium	1.17		mg/kg dry	0.118	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-70-2	Calcium	32300		mg/kg dry	0.047	5.90	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-47-3	Chromium	20.7		mg/kg dry	0.142	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-48-4	Cobalt	6.78		mg/kg dry	0.094	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-50-8	Copper	116		mg/kg dry	0.142	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7439-89-6	Iron	27500		mg/kg dry	0.768	2.36	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7439-92-1	Lead	590		mg/kg dry	0.201	0.354	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7439-95-4	Magnesium	4770		mg/kg dry	0.531	5.90	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7439-96-5	Manganese	417		mg/kg dry	0.130	1.18	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-02-0	Nickel	21.6		mg/kg dry	0.154	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-09-7	Potassium	860		mg/kg dry	3.99	11.8	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7782-49-2	Selenium	2.30		mg/kg dry	0.590	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-22-4	Silver	ND		mg/kg dry	0.118	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-23-5	Sodium	353		mg/kg dry	6.22	11.8	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-28-0	Thallium	ND		mg/kg dry	0.378	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-62-2	Vanadium	27.4		mg/kg dry	0.130	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW
7440-66-6	Zinc	640		mg/kg dry	0.106	0.590	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:43	MW



### Sample Information

**Client Sample ID:** SB-04\_0-2

**York Sample ID:** 13D0880-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.111	0.118	1	EPA SW846-7471	04/26/2013 12:43	04/26/2013 17:45	AA

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.7		%	0.100	0.100	1	SM 2540G	04/26/2013 09:01	04/26/2013 09:01	AMC

### Sample Information

**Client Sample ID:** SB-04\_10-12

**York Sample ID:** 13D0880-19

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	492	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	653	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
120-12-7	Anthracene	ND		ug/kg dry	743	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
56-55-3	Benzo(a)anthracene	917	J	ug/kg dry	509	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
50-32-8	Benzo(a)pyrene	550	J	ug/kg dry	539	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
65-85-0	Benzoic acid	ND		ug/kg dry	930	2720	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	1140	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	452	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	1360	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	1360	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	751	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	656	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	917	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	354	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	468	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	694	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	479	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	939	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	735	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR



### Sample Information

**Client Sample ID:** SB-04\_10-12

**York Sample ID:** 13D0880-19

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-57-8	2-Chlorophenol	ND		ug/kg dry	449	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	797	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
218-01-9	Chrysene	<b>898</b>	J	ug/kg dry	626	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	547	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	634	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	552	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	890	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	838	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	430	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	713	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	1110	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	854	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	952	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	607	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	1710	2720	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	1190	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	1140	2720	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	699	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	601	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	1360	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
206-44-0	Fluoranthene	<b>1840</b>		ug/kg dry	797	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
86-73-7	Fluorene	ND		ug/kg dry	653	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	803	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	460	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1010	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	389	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	620	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
78-59-1	Isophorone	ND		ug/kg dry	468	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	1040	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	517	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	590	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	335	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR



### Sample Information

**Client Sample ID:** SB-04\_10-12

**York Sample ID:** 13D0880-19

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	1350	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	563	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	400	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	511	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	370	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	454	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	615	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	1030	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
85-01-8	Phenanthrene	998	J	ug/kg dry	710	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
108-95-2	Phenol	ND		ug/kg dry	588	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
129-00-0	Pyrene	1550		ug/kg dry	555	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	492	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	1060	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	691	1360	5	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 14:02	SR
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
5175-83-7	Surrogate: 2,4,6-Tribromophenol	63.5 %			15-110						
321-60-8	Surrogate: 2-Fluorobiphenyl	78.0 %			30-130						
367-12-4	Surrogate: 2-Fluorophenol	78.7 %			15-110						
4165-60-0	Surrogate: Nitrobenzene-d5	69.9 %			30-130						
4165-62-2	Surrogate: Phenol-d5	87.6 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	73.3 %			30-130						

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	136	136	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.5	13.5	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
72-20-8	Endrin	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW



### Sample Information

**Client Sample ID:** SB-04\_10-12

**York Sample ID:** 13D0880-19

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
57-74-9	Chlordane, total	ND		ug/kg dry	10.8	10.8	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
309-00-2	Aldrin	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
50-29-3	4,4'-DDT	<b>9.22</b>		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
72-55-9	4,4'-DDE	<b>3.49</b>		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
72-54-8	4,4'-DDD	ND		ug/kg dry	2.69	2.69	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:37	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	27.8	27.8	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:42	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	27.8	27.8	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:42	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	27.8	27.8	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:42	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	27.8	27.8	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:42	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	27.8	27.8	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:42	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	27.8	27.8	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:42	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	27.8	27.8	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:42	JW
1336-36-3	Total PCBs	ND		ug/kg dry	11.1	27.8	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 18:42	JW
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	81.2 %		30-150							
2051-24-3	Surrogate: Decachlorobiphenyl	104 %		30-150							

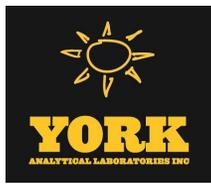
**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	<b>6650</b>		mg/kg dry	1.11	2.18	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:48	MW
7440-36-0	Antimony	ND		mg/kg dry	0.239	0.544	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:48	MW
7440-38-2	Arsenic	<b>2.94</b>		mg/kg dry	0.370	1.09	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:48	MW
7440-39-3	Barium	<b>203</b>		mg/kg dry	0.141	0.544	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:48	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.109	0.109	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:48	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.109	0.544	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:48	MW
7440-70-2	Calcium	<b>3080</b>		mg/kg dry	0.044	5.44	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:48	MW
7440-47-3	Chromium	<b>13.7</b>		mg/kg dry	0.131	0.544	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:48	MW
7440-48-4	Cobalt	<b>6.59</b>		mg/kg dry	0.087	0.544	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:48	MW



Sample Information

Client Sample ID: SB-04\_10-12

York Sample ID: 13D0880-19

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 13D0880, 170157901 (H4H), Soil, April 24, 2013 3:00 pm, 04/24/2013

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various metals like Copper, Iron, Lead, Magnesium, Manganese, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc.

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists Mercury.

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists % Solids.

Sample Information

Client Sample ID: SB-06\_0-2

York Sample ID: 13D0880-20

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 13D0880, 170157901 (H4H), Soil, April 24, 2013 3:00 pm, 04/24/2013

Semi-Volatiles, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene.



### Sample Information

**Client Sample ID:** SB-06\_0-2

**York Sample ID:** 13D0880-20

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	2810	J	ug/kg dry	1160	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
65-85-0	Benzoic acid	ND		ug/kg dry	2000	5860	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
205-99-2	Benzo(b)fluoranthene	4490		ug/kg dry	2460	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	973	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	2930	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
207-08-9	Benzo(k)fluoranthene	3110		ug/kg dry	2930	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1620	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1410	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1980	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	762	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1010	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1490	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1030	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	2020	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1580	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	967	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1720	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
218-01-9	Chrysene	2420	J	ug/kg dry	1350	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1180	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1370	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1190	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1920	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1810	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	926	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1540	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	2390	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1840	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	2050	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1310	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	3690	5860	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2560	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	2460	5860	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR



### Sample Information

**Client Sample ID:** SB-06\_0-2

**York Sample ID:** 13D0880-20

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1510	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1300	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	2930	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
206-44-0	Fluoranthene	<b>4070</b>		ug/kg dry	1720	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
86-73-7	Fluorene	ND		ug/kg dry	1410	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1730	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	991	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	2180	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	838	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	1340	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
78-59-1	Isophorone	ND		ug/kg dry	1010	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2250	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1110	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1270	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
91-20-3	Naphthalene	ND		ug/kg dry	721	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2910	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1210	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	862	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	1100	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	797	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	979	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1320	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	2210	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
85-01-8	Phenanthrene	<b>3260</b>		ug/kg dry	1530	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
108-95-2	Phenol	ND		ug/kg dry	1270	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
129-00-0	Pyrene	<b>4750</b>		ug/kg dry	1200	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1060	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	2270	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1490	2930	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 19:59	SR
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
5175-83-7	Surrogate: 2,4,6-Tribromophenol	30.3 %		15-110							
321-60-8	Surrogate: 2-Fluorobiphenyl	35.3 %		30-130							
367-12-4	Surrogate: 2-Fluorophenol	28.4 %		15-110							



### Sample Information

**Client Sample ID:** SB-06\_0-2

**York Sample ID:** 13D0880-20

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	Surrogate: Nitrobenzene-d5	18.4 %	S-06		30-130						
4165-62-2	Surrogate: Phenol-d5	43.7 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	45.2 %			30-130						

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	147	147	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
72-43-5	Methoxychlor	ND		ug/kg dry	14.5	14.5	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
72-20-8	Endrin	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
57-74-9	Chlordane, total	<b>26.4</b>		ug/kg dry	11.6	11.6	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
309-00-2	Aldrin	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
50-29-3	4,4'-DDT	<b>62.8</b>		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
72-55-9	4,4'-DDE	<b>26.4</b>		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
72-54-8	4,4'-DDD	ND		ug/kg dry	2.90	2.90	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:52	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	29.9	29.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:02	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	29.9	29.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:02	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	29.9	29.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:02	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	29.9	29.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:02	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	29.9	29.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:02	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	29.9	29.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:02	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	29.9	29.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:02	JW



### Sample Information

**Client Sample ID:** SB-06\_0-2

**York Sample ID:** 13D0880-20

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	Total PCBs	ND		ug/kg dry	12.0	29.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:02	JW
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
877-09-8	Surrogate: Tetrachloro-m-xylene	108 %	30-150								
2051-24-3	Surrogate: Decachlorobiphenyl	132 %	30-150								

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9940		mg/kg dry	1.20	2.34	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-36-0	Antimony	0.628		mg/kg dry	0.258	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-38-2	Arsenic	8.47		mg/kg dry	0.399	1.17	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-39-3	Barium	450		mg/kg dry	0.152	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.117	0.117	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.117	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-70-2	Calcium	3890		mg/kg dry	0.047	5.86	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-47-3	Chromium	18.3		mg/kg dry	0.141	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-48-4	Cobalt	5.98		mg/kg dry	0.094	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-50-8	Copper	61.0		mg/kg dry	0.141	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7439-89-6	Iron	15900		mg/kg dry	0.762	2.34	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7439-92-1	Lead	695		mg/kg dry	0.199	0.352	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7439-95-4	Magnesium	1570		mg/kg dry	0.528	5.86	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7439-96-5	Manganese	267		mg/kg dry	0.129	1.17	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-02-0	Nickel	13.3		mg/kg dry	0.152	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-09-7	Potassium	717		mg/kg dry	3.96	11.7	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7782-49-2	Selenium	1.97		mg/kg dry	0.586	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-22-4	Silver	ND		mg/kg dry	0.117	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-23-5	Sodium	206		mg/kg dry	6.18	11.7	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-28-0	Thallium	ND		mg/kg dry	0.375	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-62-2	Vanadium	22.8		mg/kg dry	0.129	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW
7440-66-6	Zinc	226		mg/kg dry	0.106	0.586	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:53	MW



### Sample Information

**Client Sample ID:** SB-06\_0-2

**York Sample ID:** 13D0880-20

York Project (SDG) No. 13D0880      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 24, 2013 3:00 pm      Date Received 04/24/2013

**Mercury by 7470/7471**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.110	0.117	1	EPA SW846-7471	04/26/2013 12:43	04/26/2013 17:45	AA

**Total Solids**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.3		%	0.100	0.100	1	SM 2540G	04/26/2013 09:01	04/26/2013 09:01	AMC

### Sample Information

**Client Sample ID:** SB-06\_10-12

**York Sample ID:** 13D0880-21

York Project (SDG) No. 13D0880      Client Project ID 170157901 (H4H)      Matrix Soil      Collection Date/Time April 24, 2013 3:00 pm      Date Received 04/24/2013

**Semi-Volatiles, EPA TCL List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	95.5	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	127	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
120-12-7	Anthracene	ND		ug/kg dry	144	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	98.6	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	104	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
65-85-0	Benzoic acid	ND		ug/kg dry	180	527	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	221	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	87.6	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	264	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	264	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	146	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	127	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	178	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	68.6	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	90.7	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	135	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	92.8	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	182	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR



### Sample Information

**Client Sample ID:** SB-06\_10-12

**York Sample ID:** 13D0880-21

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	142	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	87.0	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	155	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
218-01-9	Chrysene	ND		ug/kg dry	121	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	106	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	123	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	107	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	172	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	162	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	83.3	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	138	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	215	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	166	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	185	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	118	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	332	527	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	230	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	222	527	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	136	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	117	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	264	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
206-44-0	Fluoranthene	ND		ug/kg dry	155	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
86-73-7	Fluorene	ND		ug/kg dry	127	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	156	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	89.1	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	196	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	75.4	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	120	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
78-59-1	Isophorone	ND		ug/kg dry	90.7	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	203	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	100	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	114	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR



### Sample Information

**Client Sample ID:** SB-06\_10-12

**York Sample ID:** 13D0880-21

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	64.9	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	262	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	109	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	77.5	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	99.2	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	71.7	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	88.1	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	119	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	199	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
85-01-8	Phenanthrene	ND		ug/kg dry	138	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
108-95-2	Phenol	ND		ug/kg dry	114	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
129-00-0	Pyrene	114	J	ug/kg dry	108	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	95.5	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	205	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	134	264	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:30	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

5175-83-7	Surrogate: 2,4,6-Tribromophenol	52.4 %		15-110
321-60-8	Surrogate: 2-Fluorobiphenyl	57.1 %		30-130
367-12-4	Surrogate: 2-Fluorophenol	14.1 %	S-04	15-110
4165-60-0	Surrogate: Nitrobenzene-d5	15.7 %	S-04	30-130
4165-62-2	Surrogate: Phenol-d5	35.3 %		15-110
1718-51-0	Surrogate: Terphenyl-d14	78.4 %		30-130

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	132	132	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.1	13.1	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
72-20-8	Endrin	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW



### Sample Information

**Client Sample ID:** SB-06\_10-12

**York Sample ID:** 13D0880-21

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33213-65-9	Endosulfan II	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
57-74-9	Chlordane, total	ND		ug/kg dry	10.4	10.4	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
309-00-2	Aldrin	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
50-29-3	4,4'-DDT	<b>4.86</b>		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
72-54-8	4,4'-DDD	ND		ug/kg dry	2.61	2.61	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:07	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	26.9	26.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	26.9	26.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	26.9	26.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	26.9	26.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	26.9	26.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	26.9	26.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	26.9	26.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW
1336-36-3	Total PCBs	ND		ug/kg dry	10.8	26.9	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:22	JW

**Surrogate Recoveries**

**Result**

**Acceptance Range**

877-09-8 *Surrogate: Tetrachloro-m-xylene* 107 %  
 2051-24-3 *Surrogate: Decachlorobiphenyl* 128 %

**Log-in Notes:**

**Sample Notes:**

**Metals, Target Analyte**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	<b>9090</b>		mg/kg dry	1.08	2.11	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-36-0	Antimony	ND		mg/kg dry	0.232	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-38-2	Arsenic	<b>5.14</b>		mg/kg dry	0.359	1.05	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-39-3	Barium	<b>36.9</b>		mg/kg dry	0.137	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.105	0.105	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.105	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-70-2	Calcium	<b>1390</b>		mg/kg dry	0.042	5.27	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-47-3	Chromium	<b>27.4</b>		mg/kg dry	0.127	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW



### Sample Information

**Client Sample ID:** SB-06\_10-12

**York Sample ID:** 13D0880-21

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	Cobalt	9.02		mg/kg dry	0.084	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-50-8	Copper	28.6		mg/kg dry	0.127	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7439-89-6	Iron	38800		mg/kg dry	0.686	2.11	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7439-92-1	Lead	21.5		mg/kg dry	0.179	0.316	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7439-95-4	Magnesium	2780		mg/kg dry	0.475	5.27	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7439-96-5	Manganese	702		mg/kg dry	0.116	1.05	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-02-0	Nickel	17.8		mg/kg dry	0.137	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-09-7	Potassium	815		mg/kg dry	3.57	10.5	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7782-49-2	Selenium	4.18		mg/kg dry	0.527	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-22-4	Silver	ND		mg/kg dry	0.105	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-23-5	Sodium	159		mg/kg dry	5.56	10.5	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-28-0	Thallium	ND		mg/kg dry	0.338	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-62-2	Vanadium	33.4		mg/kg dry	0.116	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW
7440-66-6	Zinc	41.5		mg/kg dry	0.095	0.527	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 19:58	MW

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0992	0.105	1	EPA SW846-7471	04/26/2013 12:43	04/26/2013 17:45	AA

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	94.8		%	0.100	0.100	1	SM 2540G	04/26/2013 09:01	04/26/2013 09:01	AMC

### Sample Information

**Client Sample ID:** MW-07\_0-2

**York Sample ID:** 13D0880-22

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	1060	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1400	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
120-12-7	Anthracene	ND		ug/kg dry	1590	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR



### Sample Information

**Client Sample ID:** MW-07\_0-2

**York Sample ID:** 13D0880-22

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	1820	J	ug/kg dry	1090	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
50-32-8	Benzo(a)pyrene	2520	J	ug/kg dry	1150	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
65-85-0	Benzoic acid	ND		ug/kg dry	1990	5830	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	2440	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
191-24-2	Benzo(g,h,i)perylene	1570	J	ug/kg dry	968	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	2920	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	2920	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1610	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1410	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1970	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	758	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1000	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1490	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1030	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	2010	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1570	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	962	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1710	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
218-01-9	Chrysene	2500	J	ug/kg dry	1340	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1170	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1360	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1180	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1910	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1800	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	921	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1530	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	2380	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1830	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	2040	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1300	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2540	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	3670	5830	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR



### Sample Information

**Client Sample ID:** MW-07\_0-2

**York Sample ID:** 13D0880-22

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	2450	5830	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1500	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1290	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	2920	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
206-44-0	Fluoranthene	<b>5030</b>		ug/kg dry	1710	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
86-73-7	Fluorene	ND		ug/kg dry	1400	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1720	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	985	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	2170	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	834	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
193-39-5	Indeno(1,2,3-cd)pyrene	<b>1400</b>	J	ug/kg dry	1330	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
78-59-1	Isophorone	ND		ug/kg dry	1000	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2240	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1110	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1270	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
91-20-3	Naphthalene	ND		ug/kg dry	717	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2900	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1210	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	857	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	1100	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	793	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	974	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1320	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	2200	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
85-01-8	Phenanthrene	<b>4470</b>		ug/kg dry	1520	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
108-95-2	Phenol	ND		ug/kg dry	1260	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
129-00-0	Pyrene	<b>5010</b>		ug/kg dry	1190	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1060	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	2260	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1480	2920	10	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:09	SR
	<b>Surrogate Recoveries</b>	<b>Result</b>		<b>Acceptance Range</b>							
5175-83-7	Surrogate: 2,4,6-Tribromophenol	58.8 %		15-110							
321-60-8	Surrogate: 2-Fluorobiphenyl	59.3 %		30-130							



### Sample Information

**Client Sample ID:** MW-07\_0-2

**York Sample ID:** 13D0880-22

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
367-12-4	Surrogate: 2-Fluorophenol	13.5 %	S-06		15-110						
4165-60-0	Surrogate: Nitrobenzene-d5	16.2 %	S-06		30-130						
4165-62-2	Surrogate: Phenol-d5	25.8 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	82.6 %			30-130						

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	146	146	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
72-43-5	Methoxychlor	ND		ug/kg dry	14.4	14.4	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
72-20-8	Endrin	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
57-74-9	Chlordane, total	ND		ug/kg dry	11.5	11.5	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
309-00-2	Aldrin	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
50-29-3	4,4'-DDT	<b>6.04</b>		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
72-54-8	4,4'-DDD	ND		ug/kg dry	2.89	2.89	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:22	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	29.7	29.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:41	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	29.7	29.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:41	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	29.7	29.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:41	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	29.7	29.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:41	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	29.7	29.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:41	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	29.7	29.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:41	JW



### Sample Information

**Client Sample ID:** MW-07\_0-2

**York Sample ID:** 13D0880-22

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/kg dry	29.7	29.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:41	JW
1336-36-3	Total PCBs	ND		ug/kg dry	11.9	29.7	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 19:41	JW
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
877-09-8	<i>Surrogate: Tetrachloro-m-xylene</i>	133 %			30-150						
2051-24-3	<i>Surrogate: Decachlorobiphenyl</i>	144 %			30-150						

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	10800		mg/kg dry	1.19	2.33	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-36-0	Antimony	ND		mg/kg dry	0.257	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-38-2	Arsenic	7.05		mg/kg dry	0.397	1.17	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-39-3	Barium	442		mg/kg dry	0.152	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.117	0.117	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-70-2	Calcium	8630		mg/kg dry	0.047	5.83	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-47-3	Chromium	18.1		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-48-4	Cobalt	4.98		mg/kg dry	0.093	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-50-8	Copper	48.1		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7439-89-6	Iron	14600		mg/kg dry	0.758	2.33	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7439-92-1	Lead	497		mg/kg dry	0.198	0.350	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7439-95-4	Magnesium	1850		mg/kg dry	0.525	5.83	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7439-96-5	Manganese	223		mg/kg dry	0.128	1.17	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-02-0	Nickel	12.3		mg/kg dry	0.152	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-09-7	Potassium	680		mg/kg dry	3.94	11.7	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7782-49-2	Selenium	1.96		mg/kg dry	0.583	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-22-4	Silver	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-23-5	Sodium	150		mg/kg dry	6.15	11.7	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-28-0	Thallium	ND		mg/kg dry	0.373	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-62-2	Vanadium	20.2		mg/kg dry	0.128	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW
7440-66-6	Zinc	390		mg/kg dry	0.105	0.583	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:03	MW



### Sample Information

**Client Sample ID:** MW-07\_0-2

**York Sample ID:** 13D0880-22

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Mercury by 7470/7471**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.110	0.117	1	EPA SW846-7471	04/26/2013 12:43	04/26/2013 17:45	AA

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.7		%	0.100	0.100	1	SM 2540G	04/26/2013 09:01	04/26/2013 09:01	AMC

### Sample Information

**Client Sample ID:** MW-07\_10-12

**York Sample ID:** 13D0880-23

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	115	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	152	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
120-12-7	Anthracene	ND		ug/kg dry	173	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	119	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	126	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
65-85-0	Benzoic acid	ND		ug/kg dry	217	634	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	266	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	105	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	317	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	317	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	175	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	153	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	214	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	82.4	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	109	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	162	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	112	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	219	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR



### Sample Information

**Client Sample ID:** MW-07\_10-12

**York Sample ID:** 13D0880-23

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	171	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	105	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	186	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
218-01-9	Chrysene	ND		ug/kg dry	146	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	127	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	148	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	129	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	207	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	195	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	100	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	166	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	259	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	199	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	222	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	141	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	277	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	400	634	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	266	634	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	163	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	140	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	317	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
206-44-0	Fluoranthene	ND		ug/kg dry	186	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
86-73-7	Fluorene	ND		ug/kg dry	152	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	187	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	107	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	236	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	90.7	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	145	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
78-59-1	Isophorone	ND		ug/kg dry	109	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	244	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	121	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	138	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR



### Sample Information

**Client Sample ID:** MW-07\_10-12

**York Sample ID:** 13D0880-23

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Semi-Volatiles, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	78.0	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	315	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	131	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	93.2	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	119	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	86.3	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	106	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	143	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	239	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
85-01-8	Phenanthrene	ND		ug/kg dry	166	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
108-95-2	Phenol	ND		ug/kg dry	137	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
129-00-0	Pyrene	143	J	ug/kg dry	129	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	115	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	246	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	161	317	1	EPA SW846-8270C	04/26/2013 06:50	04/26/2013 20:40	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

5175-83-7	Surrogate: 2,4,6-Tribromophenol	66.8 %			15-110
321-60-8	Surrogate: 2-Fluorobiphenyl	60.2 %			30-130
367-12-4	Surrogate: 2-Fluorophenol	24.7 %			15-110
4165-60-0	Surrogate: Nitrobenzene-d5	18.8 %	S-04		30-130
4165-62-2	Surrogate: Phenol-d5	32.8 %			15-110
1718-51-0	Surrogate: Terphenyl-d14	88.7 %			30-130

**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	159	159	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
72-43-5	Methoxychlor	ND		ug/kg dry	15.7	15.7	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
76-44-8	Heptachlor	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
72-20-8	Endrin	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW



### Sample Information

**Client Sample ID:** MW-07\_10-12

**York Sample ID:** 13D0880-23

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Pesticides/PCBs, EPA TCL List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33213-65-9	Endosulfan II	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
959-98-8	Endosulfan I	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
60-57-1	Dieldrin	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
319-86-8	delta-BHC	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
57-74-9	Chlordane, total	ND		ug/kg dry	12.6	12.6	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
319-85-7	beta-BHC	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
319-84-6	alpha-BHC	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
309-00-2	Aldrin	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
72-54-8	4,4'-DDD	ND		ug/kg dry	3.14	3.14	5	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 21:37	JW
11096-82-5	Aroclor 1260	ND		ug/kg dry	32.3	32.3	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:01	JW
11097-69-1	Aroclor 1254	ND		ug/kg dry	32.3	32.3	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:01	JW
12672-29-6	Aroclor 1248	ND		ug/kg dry	32.3	32.3	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:01	JW
53469-21-9	Aroclor 1242	ND		ug/kg dry	32.3	32.3	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:01	JW
11141-16-5	Aroclor 1232	ND		ug/kg dry	32.3	32.3	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:01	JW
11104-28-2	Aroclor 1221	ND		ug/kg dry	32.3	32.3	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:01	JW
12674-11-2	Aroclor 1016	ND		ug/kg dry	32.3	32.3	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:01	JW
1336-36-3	Total PCBs	ND		ug/kg dry	12.9	32.3	1	EPA SW 846-8081/8082	04/26/2013 06:53	04/29/2013 20:01	JW

**Surrogate Recoveries**

**Result**

**Acceptance Range**

877-09-8	Surrogate: Tetrachloro-m-xylene	116 %		30-150
2051-24-3	Surrogate: Decachlorobiphenyl	157 %	S-GC	30-150

**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	16000		mg/kg dry	1.29	2.54	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-36-0	Antimony	ND		mg/kg dry	0.279	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-38-2	Arsenic	5.71		mg/kg dry	0.431	1.27	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-39-3	Barium	52.6		mg/kg dry	0.165	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.127	0.127	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.127	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-70-2	Calcium	3210		mg/kg dry	0.051	6.34	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-47-3	Chromium	30.3		mg/kg dry	0.152	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW



### Sample Information

**Client Sample ID:** MW-07\_10-12

**York Sample ID:** 13D0880-23

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Metals, Target Analyte**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-48-4	Cobalt	7.82		mg/kg dry	0.101	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-50-8	Copper	24.0		mg/kg dry	0.152	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7439-89-6	Iron	27900		mg/kg dry	0.824	2.54	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7439-92-1	Lead	25.7		mg/kg dry	0.216	0.381	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7439-95-4	Magnesium	2950		mg/kg dry	0.571	6.34	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7439-96-5	Manganese	189		mg/kg dry	0.140	1.27	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-02-0	Nickel	15.2		mg/kg dry	0.165	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-09-7	Potassium	1290		mg/kg dry	4.29	12.7	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7782-49-2	Selenium	1.83		mg/kg dry	0.634	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-22-4	Silver	ND		mg/kg dry	0.127	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-23-5	Sodium	160		mg/kg dry	6.68	12.7	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-28-0	Thallium	ND		mg/kg dry	0.406	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-62-2	Vanadium	41.4		mg/kg dry	0.140	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW
7440-66-6	Zinc	79.7		mg/kg dry	0.114	0.634	1	EPA SW846-6010B	04/25/2013 15:29	04/25/2013 20:08	MW

**Mercury by 7470/7471**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.119	0.127	1	EPA SW846-7471	04/26/2013 12:43	04/26/2013 17:45	AA

**Total Solids**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	78.8		%	0.100	0.100	1	SM 2540G	04/26/2013 09:01	04/26/2013 09:01	AMC

### Sample Information

**Client Sample ID:** SB-06\_11-12

**York Sample ID:** 13D0880-24

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS



### Sample Information

**Client Sample ID:** SB-06\_11-12

**York Sample ID:** 13D0880-24

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13D0880

170157901 (H4H)

Soil

April 24, 2013 3:00 pm

04/24/2013

**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	5.2	21	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.2	21	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
78-93-3	2-Butanone	ND		ug/kg dry	5.2	21	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
591-78-6	2-Hexanone	ND		ug/kg dry	5.2	21	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
67-64-1	Acetone	ND		ug/kg dry	5.2	21	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
71-43-2	Benzene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-25-2	Bromoform	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
74-83-9	Bromomethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-00-3	Chloroethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
67-66-3	Chloroform	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
74-87-3	Chloromethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.2	21	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
91-20-3	Naphthalene	ND		ug/kg dry	5.2	21	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS



### Sample Information

**Client Sample ID:** SB-06\_11-12

**York Sample ID:** 13D0880-24

<u>York Project (SDG) No.</u> 13D0880	<u>Client Project ID</u> 170157901 (H4H)	<u>Matrix</u> Soil	<u>Collection Date/Time</u> April 24, 2013 3:00 pm	<u>Date Received</u> 04/24/2013
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**Volatile Organics, TCL (Target Compound List)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
95-47-6	o-Xylene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	21	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
100-42-5	Styrene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
108-88-3	Toluene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.2	10	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.2	31	1	EPA SW846-8260B	04/26/2013 09:39	04/26/2013 12:39	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %			73-130						
460-00-4	Surrogate: p-Bromofluorobenzene	100 %			72-127						
2037-26-5	Surrogate: Toluene-d8	99.2 %			84-117						

**Total Solids**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	96.8		%	0.100	0.100	1	SM 2540G	04/29/2013 11:53	04/29/2013 11:53	AMC



## Analytical Batch Summary

**Batch ID:** BD31219

**Preparation Method:** % Solids Prep

**Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13D0880-12	MW-03_0-2	04/26/13
13D0880-13	MW-03_10-12	04/26/13
13D0880-16	MW-02_0-2	04/26/13
13D0880-17	MW-02_10-12	04/26/13
13D0880-18	SB-04_0-2	04/26/13
13D0880-19	SB-04_10-12	04/26/13
13D0880-20	SB-06_0-2	04/26/13
13D0880-21	SB-06_10-12	04/26/13
13D0880-22	MW-07_0-2	04/26/13
13D0880-23	MW-07_10-12	04/26/13

**Batch ID:** BD31228

**Preparation Method:** EPA 5035A

**Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13D0880-01	MW-03_1-2	04/25/13
13D0880-02	MW-03_11-12	04/25/13
13D0880-03	SB-08_1-2	04/25/13
13D0880-04	SB-08_11-12	04/25/13
13D0880-05	MW-02_1-2	04/25/13
13D0880-06	MW-02_11-12	04/25/13
13D0880-08	SB-04_11-12	04/25/13
13D0880-09	SB-06_1-2	04/25/13
13D0880-10	MW-07_1-2	04/25/13
13D0880-11	MW-07_11-12	04/25/13
BD31228-BLK1	Blank	04/25/13
BD31228-BS1	LCS	04/25/13
BD31228-BSD1	LCS Dup	04/25/13

**Batch ID:** BD31240

**Preparation Method:** EPA 3050B

**Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13D0880-12	MW-03_0-2	04/25/13
13D0880-13	MW-03_10-12	04/25/13
13D0880-16	MW-02_0-2	04/25/13
13D0880-17	MW-02_10-12	04/25/13
13D0880-18	SB-04_0-2	04/25/13
13D0880-19	SB-04_10-12	04/25/13
13D0880-20	SB-06_0-2	04/25/13
13D0880-21	SB-06_10-12	04/25/13
13D0880-22	MW-07_0-2	04/25/13
13D0880-23	MW-07_10-12	04/25/13
BD31240-BLK1	Blank	04/25/13
BD31240-DUP1	Duplicate	04/25/13
BD31240-MS1	Matrix Spike	04/25/13
BD31240-SRM1	Reference	04/25/13



**Batch ID:** BD31254

**Preparation Method:** EPA 3550B

**Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13D0880-12	MW-03_0-2	04/26/13
13D0880-13	MW-03_10-12	04/26/13
13D0880-16	MW-02_0-2	04/26/13
13D0880-17	MW-02_10-12	04/26/13
13D0880-18	SB-04_0-2	04/26/13
13D0880-19	SB-04_10-12	04/26/13
13D0880-20	SB-06_0-2	04/26/13
13D0880-21	SB-06_10-12	04/26/13
13D0880-22	MW-07_0-2	04/26/13
13D0880-23	MW-07_10-12	04/26/13
BD31254-BLK1	Blank	04/26/13
BD31254-BS1	LCS	04/26/13
BD31254-BSD1	LCS Dup	04/26/13
BD31254-MS1	Matrix Spike	04/26/13

**Batch ID:** BD31255

**Preparation Method:** EPA 3550B

**Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
13D0880-12	MW-03_0-2	04/26/13
13D0880-13	MW-03_10-12	04/26/13
13D0880-16	MW-02_0-2	04/26/13
13D0880-17	MW-02_10-12	04/26/13
13D0880-18	SB-04_0-2	04/26/13
13D0880-19	SB-04_10-12	04/26/13
13D0880-20	SB-06_0-2	04/26/13
13D0880-21	SB-06_10-12	04/26/13
13D0880-22	MW-07_0-2	04/26/13
13D0880-23	MW-07_10-12	04/26/13
BD31255-BLK1	Blank	04/26/13
BD31255-BS1	LCS	04/26/13
BD31255-BS2	LCS	04/26/13
BD31255-BSD1	LCS Dup	04/26/13
BD31255-BSD2	LCS Dup	04/26/13
BD31255-MS1	Matrix Spike	04/26/13

**Batch ID:** BD31267

**Preparation Method:** % Solids Prep

**Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13D0880-01	MW-03_1-2	04/29/13
13D0880-02	MW-03_11-12	04/29/13
13D0880-03	SB-08_1-2	04/29/13
13D0880-04	SB-08_11-12	04/29/13
13D0880-05	MW-02_1-2	04/29/13
13D0880-06	MW-02_11-12	04/29/13
13D0880-07	SB-04_1-2	04/29/13
13D0880-08	SB-04_11-12	04/29/13
13D0880-09	SB-06_1-2	04/29/13



13D0880-10	MW-07_1-2	04/29/13
13D0880-11	MW-07_11-12	04/29/13
13D0880-24	SB-06_11-12	04/29/13

**Batch ID:** BD31271      **Preparation Method:** EPA 5035A      **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13D0880-07	SB-04_1-2	04/26/13
13D0880-24	SB-06_11-12	04/26/13
BD31271-BLK1	Blank	04/26/13
BD31271-BS1	LCS	04/26/13
BD31271-BSD1	LCS Dup	04/26/13

**Batch ID:** BD31305      **Preparation Method:** EPA SW846-7471      **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13D0880-12	MW-03_0-2	04/26/13
13D0880-13	MW-03_10-12	04/26/13
13D0880-16	MW-02_0-2	04/26/13
13D0880-17	MW-02_10-12	04/26/13
13D0880-18	SB-04_0-2	04/26/13
13D0880-19	SB-04_10-12	04/26/13
13D0880-20	SB-06_0-2	04/26/13
13D0880-21	SB-06_10-12	04/26/13
13D0880-22	MW-07_0-2	04/26/13
13D0880-23	MW-07_10-12	04/26/13
BD31305-BLK1	Blank	04/26/13
BD31305-BS1	LCS	04/26/13
BD31305-DUP1	Duplicate	04/26/13
BD31305-MS1	Matrix Spike	04/26/13



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31228 - EPA 5035A

Blank (BD31228-BLK1)

Prepared & Analyzed: 04/25/2013

1,1,1-Trichloroethane	ND	5.0	ug/kg wet								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
2-Butanone	ND	10	"								
2-Hexanone	ND	10	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Benzene	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								

Surrogate: 1,2-Dichloroethane-d4 50.8 ug/L 50.0 102 73-130



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31228 - EPA 5035A

Blank (BD31228-BLK1)

Prepared & Analyzed: 04/25/2013

Surrogate: <i>p</i> -Bromofluorobenzene	50.4		ug/L	50.0		101	72-127				
Surrogate: Toluene-d8	48.4		"	50.0		96.7	84-117				

LCS (BD31228-BS1)

Prepared & Analyzed: 04/25/2013

1,1,1-Trichloroethane	49		ug/L	50.0		97.9	77-131				
1,1,2,2-Tetrachloroethane	38		"	50.0		76.6	68-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44		"	50.0		88.5	75-143				
1,1,2-Trichloroethane	40		"	50.0		80.0	72-128				
1,1-Dichloroethane	53		"	50.0		107	78-133				
1,1-Dichloroethylene	42		"	50.0		84.7	71-142				
1,2,4-Trichlorobenzene	38		"	50.0		76.3	59-133				
1,2,4-Trimethylbenzene	40		"	50.0		79.6	68-128				
1,2-Dibromo-3-chloropropane	47		"	50.0		94.2	58-145				
1,2-Dibromoethane	41		"	50.0		82.6	73-128				
1,2-Dichloroethane	47		"	50.0		94.8	78-131				
1,2-Dichloropropane	41		"	50.0		81.4	72-129				
1,3,5-Trimethylbenzene	42		"	50.0		83.6	67-125				
2-Butanone	48		"	50.0		96.1	49-138				
2-Hexanone	26		"	50.0		52.6	52-137				
4-Methyl-2-pentanone	28		"	50.0		56.3	56-130				
Acetone	34		"	50.0		67.3	21-131				
Benzene	46		"	50.0		91.7	81-125				
Bromodichloromethane	43		"	50.0		85.2	73-131				
Bromoform	43		"	50.0		85.3	66-137				
Bromomethane	40		"	50.0		81.0	55-144				
Carbon disulfide	87		"	100		86.9	59-145				
Carbon tetrachloride	48		"	50.0		95.9	74-137				
Chlorobenzene	42		"	50.0		83.5	75-127				
Chloroethane	42		"	50.0		83.5	65-138				
Chloroform	47		"	50.0		94.5	82-128				
Chloromethane	30		"	50.0		60.5	51-138				
cis-1,2-Dichloroethylene	48		"	50.0		96.2	77-130				
cis-1,3-Dichloropropylene	42		"	50.0		84.0	68-123				
Dibromochloromethane	46		"	50.0		91.3	73-136				
Dichlorodifluoromethane	34		"	50.0		67.7	10-183				
Ethyl Benzene	42		"	50.0		84.8	75-130				
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	76-136				
Methylene chloride	36		"	50.0		72.8	55-143				
Naphthalene	39		"	50.0		78.2	65-140				
n-Butylbenzene	38		"	50.0		75.7	63-123				
n-Propylbenzene	40		"	50.0		80.5	65-127				
o-Xylene	41		"	50.0		81.6	71-123				
p- & m- Xylenes	83		"	100		83.4	72-127				
sec-Butylbenzene	42		"	50.0		83.2	69-125				
Styrene	42		"	50.0		84.2	74-127				
tert-Butylbenzene	42		"	50.0		83.4	59-164				
Tetrachloroethylene	42		"	50.0		84.4	65-151				
Toluene	42		"	50.0		83.0	72-127				
trans-1,2-Dichloroethylene	51		"	50.0		102	73-137				
trans-1,3-Dichloropropylene	42		"	50.0		83.5	67-131				
Trichloroethylene	42		"	50.0		83.1	73-129				
Trichlorofluoromethane	42		"	50.0		84.7	69-136				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD31228 - EPA 5035A</b>											
<b>LCS (BD31228-BS1)</b>											
						Prepared & Analyzed: 04/25/2013					
Vinyl Chloride	37		ug/L	50.0		74.8	58-132				
Surrogate: 1,2-Dichloroethane-d4	53.8		"	50.0		108	73-130				
Surrogate: p-Bromofluorobenzene	51.0		"	50.0		102	72-127				
Surrogate: Toluene-d8	48.7		"	50.0		97.5	84-117				
<b>LCS Dup (BD31228-BSD1)</b>											
						Prepared & Analyzed: 04/25/2013					
1,1,1-Trichloroethane	53		ug/L	50.0		107	77-131		8.47	30	
1,1,2,2-Tetrachloroethane	45		"	50.0		91.0	68-129		17.1	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		96.0	75-143		8.22	30	
1,1,2-Trichloroethane	45		"	50.0		90.6	72-128		12.4	30	
1,1-Dichloroethane	58		"	50.0		115	78-133		7.40	30	
1,1-Dichloroethylene	46		"	50.0		93.0	71-142		9.34	30	
1,2,4-Trichlorobenzene	44		"	50.0		87.0	59-133		13.1	30	
1,2,4-Trimethylbenzene	47		"	50.0		93.3	68-128		15.8	30	
1,2-Dibromo-3-chloropropane	52		"	50.0		104	58-145		10.1	30	
1,2-Dibromoethane	47		"	50.0		94.5	73-128		13.5	30	
1,2-Dichloroethane	51		"	50.0		102	78-131		6.92	30	
1,2-Dichloropropane	47		"	50.0		94.8	72-129		15.2	30	
1,3,5-Trimethylbenzene	49		"	50.0		97.1	67-125		14.9	30	
2-Butanone	54		"	50.0		109	49-138		12.3	30	
2-Hexanone	32		"	50.0		63.6	52-137		19.0	30	
4-Methyl-2-pentanone	31		"	50.0		61.8	56-130		9.32	30	
Acetone	38		"	50.0		75.8	21-131		11.8	30	
Benzene	50		"	50.0		100	81-125		8.82	30	
Bromodichloromethane	48		"	50.0		96.6	73-131		12.5	30	
Bromoform	51		"	50.0		101	66-137		16.9	30	
Bromomethane	42		"	50.0		84.4	55-144		4.11	30	
Carbon disulfide	94		"	100		94.2	59-145		8.10	30	
Carbon tetrachloride	52		"	50.0		104	74-137		8.32	30	
Chlorobenzene	48		"	50.0		96.5	75-127		14.4	30	
Chloroethane	45		"	50.0		89.8	65-138		7.22	30	
Chloroform	50		"	50.0		99.4	82-128		5.04	30	
Chloromethane	32		"	50.0		63.9	51-138		5.43	30	
cis-1,2-Dichloroethylene	52		"	50.0		104	77-130		8.06	30	
cis-1,3-Dichloropropylene	48		"	50.0		96.1	68-123		13.5	30	
Dibromochloromethane	51		"	50.0		103	73-136		12.0	30	
Dichlorodifluoromethane	33		"	50.0		65.4	10-183		3.46	30	
Ethyl Benzene	48		"	50.0		96.7	75-130		13.1	30	
Methyl tert-butyl ether (MTBE)	55		"	50.0		111	76-136		6.67	30	
Methylene chloride	40		"	50.0		80.9	55-143		10.6	30	
Naphthalene	45		"	50.0		90.6	65-140		14.7	30	
n-Butylbenzene	43		"	50.0		86.9	63-123		13.7	30	
n-Propylbenzene	47		"	50.0		94.0	65-127		15.5	30	
o-Xylene	47		"	50.0		94.4	71-123		14.5	30	
p- & m- Xylenes	96		"	100		95.7	72-127		13.7	30	
sec-Butylbenzene	48		"	50.0		96.4	69-125		14.8	30	
Styrene	50		"	50.0		99.5	74-127		16.7	30	
tert-Butylbenzene	50		"	50.0		99.5	59-164		17.7	30	
Tetrachloroethylene	47		"	50.0		94.8	65-151		11.6	30	
Toluene	47		"	50.0		93.5	72-127		11.8	30	
trans-1,2-Dichloroethylene	55		"	50.0		109	73-137		6.72	30	
trans-1,3-Dichloropropylene	47		"	50.0		94.4	67-131		12.3	30	



**Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BD31228 - EPA 5035A**

**LCS Dup (BD31228-BSD1)**

Prepared & Analyzed: 04/25/2013

Trichloroethylene	48		ug/L	50.0		96.4	73-129			14.8	30		
Trichlorofluoromethane	46		"	50.0		91.2	69-136			7.41	30		
Vinyl Chloride	40		"	50.0		79.1	58-132			5.64	30		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>98.0</i>	<i>73-130</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.8</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>72-127</i>						
<i>Surrogate: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.3</i>	<i>84-117</i>						

**Batch BD31271 - EPA 5035A**

**Blank (BD31271-BLK1)**

Prepared & Analyzed: 04/26/2013

1,1,1-Trichloroethane	ND	5.0	ug/kg wet										
1,1,2,2-Tetrachloroethane	ND	5.0	"										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"										
1,1,2-Trichloroethane	ND	5.0	"										
1,1-Dichloroethane	ND	5.0	"										
1,1-Dichloroethylene	ND	5.0	"										
1,2,4-Trichlorobenzene	ND	10	"										
1,2,4-Trimethylbenzene	ND	5.0	"										
1,2-Dibromo-3-chloropropane	ND	10	"										
1,2-Dibromoethane	ND	5.0	"										
1,2-Dichloroethane	ND	5.0	"										
1,2-Dichloropropane	ND	5.0	"										
1,3,5-Trimethylbenzene	ND	5.0	"										
2-Butanone	ND	10	"										
2-Hexanone	ND	10	"										
4-Methyl-2-pentanone	ND	5.0	"										
Acetone	ND	10	"										
Benzene	ND	5.0	"										
Bromodichloromethane	ND	5.0	"										
Bromoform	ND	5.0	"										
Bromomethane	ND	5.0	"										
Carbon disulfide	ND	5.0	"										
Carbon tetrachloride	ND	5.0	"										
Chlorobenzene	ND	5.0	"										
Chloroethane	ND	5.0	"										
Chloroform	ND	5.0	"										
Chloromethane	ND	5.0	"										
cis-1,2-Dichloroethylene	ND	5.0	"										
cis-1,3-Dichloropropylene	ND	5.0	"										
Dibromochloromethane	ND	5.0	"										
Dichlorodifluoromethane	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methylene chloride	ND	10	"										
Naphthalene	ND	10	"										
n-Butylbenzene	ND	5.0	"										
n-Propylbenzene	ND	5.0	"										
o-Xylene	ND	5.0	"										
p- & m- Xylenes	ND	10	"										
sec-Butylbenzene	ND	5.0	"										
Styrene	ND	5.0	"										
tert-Butylbenzene	ND	5.0	"										



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31271 - EPA 5035A

Blank (BD31271-BLK1)

Prepared & Analyzed: 04/26/2013

Tetrachloroethylene	ND	5.0	ug/kg wet								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								

Surrogate: 1,2-Dichloroethane-d4	54.1		ug/L	50.0		108	73-130				
Surrogate: p-Bromofluorobenzene	50.5		"	50.0		101	72-127				
Surrogate: Toluene-d8	49.4		"	50.0		98.8	84-117				

LCS (BD31271-BS1)

Prepared & Analyzed: 04/26/2013

1,1,1-Trichloroethane	50		ug/L	50.0		99.9	77-131				
1,1,2,2-Tetrachloroethane	44		"	50.0		87.6	68-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	40		"	50.0		79.2	75-143				
1,1,2-Trichloroethane	44		"	50.0		88.0	72-128				
1,1-Dichloroethane	54		"	50.0		108	78-133				
1,1-Dichloroethylene	39		"	50.0		77.9	71-142				
1,2,4-Trichlorobenzene	47		"	50.0		93.3	59-133				
1,2,4-Trimethylbenzene	44		"	50.0		87.4	68-128				
1,2-Dibromo-3-chloropropane	50		"	50.0		100	58-145				
1,2-Dibromoethane	46		"	50.0		92.5	73-128				
1,2-Dichloroethane	52		"	50.0		104	78-131				
1,2-Dichloropropane	43		"	50.0		85.6	72-129				
1,3,5-Trimethylbenzene	44		"	50.0		88.6	67-125				
2-Butanone	48		"	50.0		97.0	49-138				
2-Hexanone	31		"	50.0		62.2	52-137				
4-Methyl-2-pentanone	32		"	50.0		63.8	56-130				
Acetone	34		"	50.0		67.2	21-131				
Benzene	47		"	50.0		93.7	81-125				
Bromodichloromethane	47		"	50.0		93.8	73-131				
Bromoform	48		"	50.0		96.5	66-137				
Bromomethane	30		"	50.0		59.8	55-144				
Carbon disulfide	72		"	100		72.1	59-145				
Carbon tetrachloride	50		"	50.0		100	74-137				
Chlorobenzene	46		"	50.0		92.7	75-127				
Chloroethane	34		"	50.0		68.0	65-138				
Chloroform	50		"	50.0		99.8	82-128				
Chloromethane	18		"	50.0		35.4	51-138	Low Bias			
cis-1,2-Dichloroethylene	49		"	50.0		98.7	77-130				
cis-1,3-Dichloropropylene	47		"	50.0		93.6	68-123				
Dibromochloromethane	50		"	50.0		101	73-136				
Dichlorodifluoromethane	9.0		"	50.0		18.0	10-183				
Ethyl Benzene	46		"	50.0		92.5	75-130				
Methyl tert-butyl ether (MTBE)	54		"	50.0		109	76-136				
Methylene chloride	38		"	50.0		75.1	55-143				
Naphthalene	45		"	50.0		90.1	65-140				
n-Butylbenzene	43		"	50.0		85.9	63-123				
n-Propylbenzene	44		"	50.0		87.8	65-127				
o-Xylene	45		"	50.0		90.0	71-123				
p- & m- Xylenes	92		"	100		92.0	72-127				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31271 - EPA 5035A

LCS (BD31271-BS1)

Prepared & Analyzed: 04/26/2013

sec-Butylbenzene	45		ug/L	50.0		90.5	69-125				
Styrene	47		"	50.0		94.5	74-127				
tert-Butylbenzene	45		"	50.0		89.5	59-164				
Tetrachloroethylene	44		"	50.0		87.5	65-151				
Toluene	44		"	50.0		88.4	72-127				
trans-1,2-Dichloroethylene	49		"	50.0		97.5	73-137				
trans-1,3-Dichloropropylene	47		"	50.0		94.5	67-131				
Trichloroethylene	44		"	50.0		88.2	73-129				
Trichlorofluoromethane	34		"	50.0		67.4	69-136	Low Bias			
Vinyl Chloride	23		"	50.0		45.7	58-132	Low Bias			

Surrogate: 1,2-Dichloroethane-d4

54.5

"

50.0

109

73-130

Surrogate: p-Bromofluorobenzene

50.0

"

50.0

100

72-127

Surrogate: Toluene-d8

49.0

"

50.0

98.0

84-117

LCS Dup (BD31271-BS1)

Prepared & Analyzed: 04/26/2013

1,1,1-Trichloroethane	48		ug/L	50.0		95.8	77-131		4.27	30	
1,1,2,2-Tetrachloroethane	46		"	50.0		91.5	68-129		4.42	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	37		"	50.0		74.0	75-143	Low Bias	6.84	30	
1,1,2-Trichloroethane	46		"	50.0		91.8	72-128		4.23	30	
1,1-Dichloroethane	51		"	50.0		102	78-133		5.31	30	
1,1-Dichloroethylene	37		"	50.0		73.8	71-142		5.48	30	
1,2,4-Trichlorobenzene	46		"	50.0		91.4	59-133		1.97	30	
1,2,4-Trimethylbenzene	44		"	50.0		87.0	68-128		0.413	30	
1,2-Dibromo-3-chloropropane	54		"	50.0		108	58-145		7.17	30	
1,2-Dibromoethane	47		"	50.0		94.1	73-128		1.76	30	
1,2-Dichloroethane	51		"	50.0		102	78-131		2.08	30	
1,2-Dichloropropane	44		"	50.0		87.4	72-129		2.06	30	
1,3,5-Trimethylbenzene	45		"	50.0		89.5	67-125		0.989	30	
2-Butanone	52		"	50.0		104	49-138		6.77	30	
2-Hexanone	33		"	50.0		65.8	52-137		5.72	30	
4-Methyl-2-pentanone	34		"	50.0		67.2	56-130		5.22	30	
Acetone	34		"	50.0		67.3	21-131		0.238	30	
Benzene	46		"	50.0		91.1	81-125		2.75	30	
Bromodichloromethane	48		"	50.0		95.1	73-131		1.36	30	
Bromoform	51		"	50.0		101	66-137		4.62	30	
Bromomethane	28		"	50.0		55.6	55-144		7.28	30	
Carbon disulfide	68		"	100		68.4	59-145		5.24	30	
Carbon tetrachloride	47		"	50.0		94.3	74-137		5.82	30	
Chlorobenzene	46		"	50.0		92.1	75-127		0.584	30	
Chloroethane	32		"	50.0		63.1	65-138	Low Bias	7.47	30	
Chloroform	49		"	50.0		97.2	82-128		2.68	30	
Chloromethane	16		"	50.0		31.1	51-138	Low Bias	12.9	30	
cis-1,2-Dichloroethylene	48		"	50.0		96.0	77-130		2.86	30	
cis-1,3-Dichloropropylene	46		"	50.0		93.0	68-123		0.686	30	
Dibromochloromethane	50		"	50.0		100	73-136		0.477	30	
Dichlorodifluoromethane	7.0		"	50.0		14.1	10-183		24.8	30	
Ethyl Benzene	46		"	50.0		92.8	75-130		0.324	30	
Methyl tert-butyl ether (MTBE)	53		"	50.0		105	76-136		3.40	30	
Methylene chloride	36		"	50.0		71.4	55-143		5.00	30	
Naphthalene	46		"	50.0		92.8	65-140		3.00	30	
n-Butylbenzene	42		"	50.0		84.8	63-123		1.36	30	
n-Propylbenzene	44		"	50.0		87.9	65-127		0.0455	30	



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31271 - EPA 5035A

LCS Dup (BD31271-BSD1)

Prepared & Analyzed: 04/26/2013

o-Xylene	45		ug/L	50.0		90.0	71-123		0.0445	30	
p- & m- Xylenes	92		"	100		91.7	72-127		0.359	30	
sec-Butylbenzene	45		"	50.0		90.0	69-125		0.532	30	
Styrene	47		"	50.0		93.8	74-127		0.765	30	
tert-Butylbenzene	45		"	50.0		90.0	59-164		0.602	30	
Tetrachloroethylene	45		"	50.0		90.3	65-151		3.13	30	
Toluene	44		"	50.0		88.6	72-127		0.226	30	
trans-1,2-Dichloroethylene	45		"	50.0		90.3	73-137		7.71	30	
trans-1,3-Dichloropropylene	49		"	50.0		97.1	67-131		2.76	30	
Trichloroethylene	44		"	50.0		88.3	73-129		0.0227	30	
Trichlorofluoromethane	31		"	50.0		61.6	69-136	Low Bias	8.99	30	
Vinyl Chloride	21		"	50.0		42.9	58-132	Low Bias	6.37	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.5		"	50.0		107	73-130				
<i>Surrogate: p-Bromofluorobenzene</i>	50.5		"	50.0		101	72-127				
<i>Surrogate: Toluene-d8</i>	48.2		"	50.0		96.4	84-117				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31254 - EPA 3550B

Blank (BD31254-BLK1)

Prepared & Analyzed: 04/26/2013

Acenaphthene	ND	250	ug/kg wet								
Acenaphthylene	ND	250	"								
Anthracene	ND	250	"								
Benzo(a)anthracene	ND	250	"								
Benzo(a)pyrene	ND	250	"								
Benzoic acid	ND	500	"								
Benzo(b)fluoranthene	ND	250	"								
Benzo(g,h,i)perylene	ND	250	"								
Benzyl alcohol	ND	250	"								
Benzo(k)fluoranthene	ND	250	"								
Benzyl butyl phthalate	ND	250	"								
4-Bromophenyl phenyl ether	ND	250	"								
4-Chloro-3-methylphenol	ND	250	"								
4-Chloroaniline	ND	250	"								
Bis(2-chloroethoxy)methane	ND	250	"								
Bis(2-chloroethyl)ether	ND	250	"								
Bis(2-chloroisopropyl)ether	ND	250	"								
Bis(2-ethylhexyl)phthalate	ND	250	"								
2-Chloronaphthalene	ND	250	"								
2-Chlorophenol	ND	250	"								
4-Chlorophenyl phenyl ether	ND	250	"								
Chrysene	ND	250	"								
Dibenzo(a,h)anthracene	ND	250	"								
Dibenzofuran	ND	250	"								
Di-n-butyl phthalate	ND	250	"								
1,2-Dichlorobenzene	ND	250	"								
1,4-Dichlorobenzene	ND	250	"								
1,3-Dichlorobenzene	ND	250	"								
3,3'-Dichlorobenzidine	ND	250	"								
2,4-Dichlorophenol	ND	250	"								
Diethyl phthalate	ND	250	"								
2,4-Dimethylphenol	ND	250	"								
Dimethyl phthalate	ND	250	"								
2-Nitroaniline	ND	250	"								
4,6-Dinitro-2-methylphenol	ND	500	"								
2,4-Dinitrophenol	ND	500	"								
2,6-Dinitrotoluene	ND	250	"								
2,4-Dinitrotoluene	ND	250	"								
Di-n-octyl phthalate	ND	250	"								
Fluoranthene	ND	250	"								
Fluorene	ND	250	"								
Hexachlorobenzene	ND	250	"								
Hexachlorobutadiene	ND	250	"								
Hexachlorocyclopentadiene	ND	250	"								
Hexachloroethane	ND	250	"								
Indeno(1,2,3-cd)pyrene	ND	250	"								
Isophorone	ND	250	"								
2-Methylnaphthalene	ND	250	"								
2-Methylphenol	ND	250	"								
3- & 4-Methylphenols	ND	250	"								
Naphthalene	ND	250	"								



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31254 - EPA 3550B

Blank (BD31254-BLK1)

Prepared & Analyzed: 04/26/2013

3-Nitroaniline	ND	250	ug/kg wet								
4-Nitroaniline	ND	250	"								
Nitrobenzene	ND	250	"								
4-Nitrophenol	ND	250	"								
2-Nitrophenol	ND	250	"								
N-nitroso-di-n-propylamine	ND	250	"								
N-Nitrosodiphenylamine	ND	250	"								
Pentachlorophenol	ND	250	"								
Phenanthrene	ND	250	"								
Phenol	ND	250	"								
Pyrene	ND	250	"								
1,2,4-Trichlorobenzene	ND	250	"								
2,4,5-Trichlorophenol	ND	250	"								
2,4,6-Trichlorophenol	ND	250	"								
Surrogate: 2,4,6-Tribromophenol	3410		"	3750		91.0	15-110				
Surrogate: 2-Fluorobiphenyl	2720		"	2500		109	30-130				
Surrogate: 2-Fluorophenol	3070		"	3750		81.7	15-110				
Surrogate: Nitrobenzene-d5	2290		"	2500		91.4	30-130				
Surrogate: Phenol-d5	3120		"	3760		83.0	15-110				
Surrogate: Terphenyl-d14	2610		"	2500		104	30-130				

LCS (BD31254-BS1)

Prepared & Analyzed: 04/26/2013

Acenaphthene	2510	250	ug/kg wet	2500		100	31.1-109				
Acenaphthylene	2490	250	"	2500		99.4	31.1-106				
Anthracene	2640	250	"	2500		105	31.5-107				
Benzo(a)anthracene	2480	250	"	2500		99.3	31.5-115				
Benzo(a)pyrene	2500	250	"	2500		100	29.1-138				
Benzo(b)fluoranthene	2220	250	"	2500		88.8	14.9-131				
Benzo(g,h,i)perylene	2440	250	"	2500		97.7	6.56-121				
Benzyl alcohol	2460	250	"	2500		98.4	25.4-119				
Benzo(k)fluoranthene	2310	250	"	2500		92.3	29.1-121				
Benzyl butyl phthalate	2330	250	"	2500		93.1	31.3-112				
4-Bromophenyl phenyl ether	2490	250	"	2500		99.7	25.2-113				
4-Chloro-3-methylphenol	2560	250	"	2500		103	29.5-124				
4-Chloroaniline	2680	250	"	2500		107	10-177				
Bis(2-chloroethoxy)methane	2330	250	"	2500		93.2	27.9-111				
Bis(2-chloroethyl)ether	2310	250	"	2500		92.3	18-122				
Bis(2-chloroisopropyl)ether	2420	250	"	2500		96.7	9.62-123				
Bis(2-ethylhexyl)phthalate	2640	250	"	2500		106	25-105	High Bias			
2-Chloronaphthalene	2310	250	"	2500		92.4	31.7-108				
2-Chlorophenol	2250	250	"	2500		89.8	20.3-125				
4-Chlorophenyl phenyl ether	2530	250	"	2500		101	23.6-110				
Chrysene	2330	250	"	2500		93.1	27.4-117				
Dibenzo(a,h)anthracene	2460	250	"	2500		98.4	14.6-119				
Dibenzofuran	2520	250	"	2500		101	30.2-108				
Di-n-butyl phthalate	2370	250	"	2500		94.8	33.5-100				
1,2-Dichlorobenzene	2290	250	"	2500		91.7	22.8-114				
1,4-Dichlorobenzene	2150	250	"	2500		85.8	19.8-121				
1,3-Dichlorobenzene	2060	250	"	2500		82.4	20.6-119				
3,3'-Dichlorobenzidine	2770	250	"	2500		111	10-180				
2,4-Dichlorophenol	2600	250	"	2500		104	23.3-125				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31254 - EPA 3550B

LCS (BD31254-BS1)

Prepared & Analyzed: 04/26/2013

Diethyl phthalate	2190	250	ug/kg wet	2500		87.6	29.7-111				
2,4-Dimethylphenol	2570	250	"	2500		103	29.8-115				
Dimethyl phthalate	2090	250	"	2500		83.5	27-118				
2-Nitroaniline	2300	250	"	2500		91.9	20.7-122				
4,6-Dinitro-2-methylphenol	2520	500	"	2500		101	10-122				
2,4-Dinitrophenol	1380	500	"	2500		55.2	10-151				
2,6-Dinitrotoluene	2470	250	"	2500		98.9	26.1-119				
2,4-Dinitrotoluene	2250	250	"	2500		89.9	21.4-126				
Di-n-octyl phthalate	2240	250	"	2500		89.7	19-129				
Fluoranthene	2440	250	"	2500		97.6	31.3-110				
Fluorene	2650	250	"	2500		106	29.9-108				
Hexachlorobenzene	2500	250	"	2500		100	31.7-102				
Hexachlorobutadiene	2260	250	"	2500		90.4	10.1-134				
Hexachlorocyclopentadiene	1760	250	"	2500		70.3	10-122				
Hexachloroethane	2300	250	"	2500		92.1	20.2-114				
Indeno(1,2,3-cd)pyrene	2540	250	"	2500		101	12.6-120				
Isophorone	2390	250	"	2500		95.6	27.2-113				
2-Methylnaphthalene	2640	250	"	2500		106	17.4-119				
2-Methylphenol	2790	250	"	2500		112	23.6-125				
3- & 4-Methylphenols	2320	250	"	2500		92.8	21.3-115				
Naphthalene	2460	250	"	2500		98.2	25.2-111				
3-Nitroaniline	2840	250	"	2500		113	9.73-147				
4-Nitroaniline	2760	250	"	2500		110	6.42-169				
Nitrobenzene	2300	250	"	2500		92.1	21.8-118				
4-Nitrophenol	2310	250	"	2500		92.4	10-136				
2-Nitrophenol	2180	250	"	2500		87.2	20.6-119				
N-nitroso-di-n-propylamine	2370	250	"	2500		94.8	25.3-118				
N-Nitrosodiphenylamine	2860	250	"	2500		114	35.8-132				
Pentachlorophenol	2450	250	"	2500		98.0	3.68-146				
Phenanthrene	2640	250	"	2500		106	31.2-105	High Bias			
Phenol	2520	250	"	2500		101	23.2-117				
Pyrene	2530	250	"	2500		101	26.3-124				
1,2,4-Trichlorobenzene	2260	250	"	2500		90.2	19.3-128				
2,4,5-Trichlorophenol	2120	250	"	2500		84.9	19.5-131				
2,4,6-Trichlorophenol	2370	250	"	2500		95.0	24.2-123				
Surrogate: 2,4,6-Tribromophenol	4200		"	3750		112	15-110				
Surrogate: 2-Fluorobiphenyl	2700		"	2500		108	30-130				
Surrogate: 2-Fluorophenol	3560		"	3750		95.1	15-110				
Surrogate: Nitrobenzene-d5	2260		"	2500		90.2	30-130				
Surrogate: Phenol-d5	3940		"	3760		105	15-110				
Surrogate: Terphenyl-d14	2590		"	2500		104	30-130				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD31254 - EPA 3550B</b>											
<b>LCS Dup (BD31254-BSD1)</b>											
										Prepared & Analyzed: 04/26/2013	
Acenaphthene	2550	250	ug/kg wet	2500		102	31.1-109		1.42	30	
Acenaphthylene	2480	250	"	2500		99.2	31.1-106		0.242	30	
Anthracene	2590	250	"	2500		103	31.5-107		1.86	30	
Benzo(a)anthracene	2570	250	"	2500		103	31.5-115		3.35	30	
Benzo(a)pyrene	2530	250	"	2500		101	29.1-138		1.19	30	
Benzo(b)fluoranthene	1780	250	"	2500		71.3	14.9-131		21.8	30	
Benzo(g,h,i)perylene	2380	250	"	2500		95.2	6.56-121		2.59	30	
Benzyl alcohol	2500	250	"	2500		100	25.4-119		1.73	30	
Benzo(k)fluoranthene	2250	250	"	2500		90.0	29.1-121		2.55	30	
Benzyl butyl phthalate	2350	250	"	2500		94.0	31.3-112		0.984	30	
4-Bromophenyl phenyl ether	2580	250	"	2500		103	25.2-113		3.35	30	
4-Chloro-3-methylphenol	2500	250	"	2500		100	29.5-124		2.49	30	
4-Chloroaniline	2630	250	"	2500		105	10-177		1.90	30	
Bis(2-chloroethoxy)methane	2330	250	"	2500		93.1	27.9-111		0.0859	30	
Bis(2-chloroethyl)ether	2470	250	"	2500		98.7	18-122		6.68	30	
Bis(2-chloroisopropyl)ether	2540	250	"	2500		102	9.62-123		5.10	30	
Bis(2-ethylhexyl)phthalate	2650	250	"	2500		106	25-105	High Bias	0.303	30	
2-Chloronaphthalene	2370	250	"	2500		94.7	31.7-108		2.48	30	
2-Chlorophenol	2360	250	"	2500		94.3	20.3-125		4.85	30	
4-Chlorophenyl phenyl ether	2470	250	"	2500		98.9	23.6-110		2.32	30	
Chrysene	2280	250	"	2500		91.2	27.4-117		2.10	30	
Dibenzo(a,h)anthracene	2430	250	"	2500		97.0	14.6-119		1.39	30	
Dibenzofuran	2540	250	"	2500		102	30.2-108		0.612	30	
Di-n-butyl phthalate	2420	250	"	2500		96.6	33.5-100		1.92	30	
1,2-Dichlorobenzene	2380	250	"	2500		95.3	22.8-114		3.79	30	
1,4-Dichlorobenzene	2200	250	"	2500		88.1	19.8-121		2.64	30	
1,3-Dichlorobenzene	2140	250	"	2500		85.5	20.6-119		3.69	30	
3,3'-Dichlorobenzidine	2620	250	"	2500		105	10-180		5.43	30	
2,4-Dichlorophenol	2500	250	"	2500		100	23.3-125		3.59	30	
Diethyl phthalate	2160	250	"	2500		86.3	29.7-111		1.47	30	
2,4-Dimethylphenol	2650	250	"	2500		106	29.8-115		3.04	30	
Dimethyl phthalate	2080	250	"	2500		83.3	27-118		0.264	30	
4,6-Dinitro-2-methylphenol	2310	500	"	2500		92.5	10-122		8.75	30	
2-Nitroaniline	2270	250	"	2500		90.6	20.7-122		1.42	30	
2,4-Dinitrophenol	1190	500	"	2500		47.7	10-151		14.7	30	
2,6-Dinitrotoluene	2450	250	"	2500		97.9	26.1-119		0.976	30	
2,4-Dinitrotoluene	2320	250	"	2500		92.9	21.4-126		3.19	30	
Di-n-octyl phthalate	2200	250	"	2500		88.0	19-129		1.98	30	
Fluoranthene	2550	250	"	2500		102	31.3-110		4.57	30	
Fluorene	2580	250	"	2500		103	29.9-108		2.70	30	
Hexachlorobenzene	2610	250	"	2500		104	31.7-102	High Bias	4.18	30	
Hexachlorobutadiene	2300	250	"	2500		92.1	10.1-134		1.89	30	
Hexachlorocyclopentadiene	1950	250	"	2500		77.9	10-122		10.3	30	
Hexachloroethane	2450	250	"	2500		97.9	20.2-114		6.04	30	
Indeno(1,2,3-cd)pyrene	2480	250	"	2500		99.1	12.6-120		2.33	30	
Isophorone	2350	250	"	2500		93.9	27.2-113		1.82	30	
2-Methylnaphthalene	2630	250	"	2500		105	17.4-119		0.228	30	
2-Methylphenol	2930	250	"	2500		117	23.6-125		4.89	30	
3- & 4-Methylphenols	2440	250	"	2500		97.4	21.3-115		4.90	30	
Naphthalene	2500	250	"	2500		100	25.2-111		1.98	30	
3-Nitroaniline	2580	250	"	2500		103	9.73-147		9.41	30	



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31254 - EPA 3550B

LCS Dup (BD31254-BSD1)

Prepared & Analyzed: 04/26/2013

4-Nitroaniline	2470	250	ug/kg wet	2500		98.8	6.42-169		11.0	30	
Nitrobenzene	2270	250	"	2500		90.9	21.8-118		1.31	30	
4-Nitrophenol	2190	250	"	2500		87.7	10-136		5.20	30	
2-Nitrophenol	2170	250	"	2500		86.7	20.6-119		0.667	30	
N-nitroso-di-n-propylamine	2560	250	"	2500		102	25.3-118		7.63	30	
N-Nitrosodiphenylamine	2810	250	"	2500		112	35.8-132		1.78	30	
Pentachlorophenol	2560	250	"	2500		103	3.68-146		4.55	30	
Phenanthrene	2620	250	"	2500		105	31.2-105		0.684	30	
Phenol	2630	250	"	2500		105	23.2-117		4.34	30	
Pyrene	2560	250	"	2500		102	26.3-124		1.22	30	
1,2,4-Trichlorobenzene	2210	250	"	2500		88.4	19.3-128		2.02	30	
2,4,5-Trichlorophenol	1930	250	"	2500		77.0	19.5-131		9.76	30	
2,4,6-Trichlorophenol	2320	250	"	2500		92.7	24.2-123		2.41	30	

Surrogate: 2,4,6-Tribromophenol

4190

"

3750

112

15-110

Surrogate: 2-Fluorobiphenyl

2720

"

2500

109

30-130

Surrogate: 2-Fluorophenol

3550

"

3750

94.6

15-110

Surrogate: Nitrobenzene-d5

2330

"

2500

93.1

30-130

Surrogate: Phenol-d5

4240

"

3760

113

15-110

Surrogate: Terphenyl-d14

2690

"

2500

108

30-130

Matrix Spike (BD31254-MS1)

\*Source sample: 13D0880-19 (SB-04\_10-12)

Prepared & Analyzed: 04/26/2013

Acenaphthene	2360	1360	ug/kg dry	2720	ND	86.8	31.1-109				
Acenaphthylene	2300	1360	"	2720	ND	84.7	31.1-106				
Anthracene	2410	1360	"	2720	ND	88.5	31.5-107				
Benzo(a)anthracene	2740	1360	"	2720	917	66.9	31.5-115				
Benzo(a)pyrene	3670	1360	"	2720	550	115	29.1-138				
Benzo(b)fluoranthene	3420	1360	"	2720	ND	126	14.9-131				
Benzo(g,h,i)perylene	4030	1360	"	2720	ND	148	6.56-121	High Bias			
Benzyl alcohol	2780	1360	"	2720	ND	102	25.4-119				
Benzo(k)fluoranthene	3020	1360	"	2720	ND	111	29.1-121				
Benzyl butyl phthalate	2150	1360	"	2720	ND	78.9	31.3-112				
4-Bromophenyl phenyl ether	2350	1360	"	2720	ND	86.3	25.2-113				
4-Chloro-3-methylphenol	2420	1360	"	2720	ND	89.1	29.5-124				
4-Chloroaniline	2820	1360	"	2720	ND	104	10-177				
Bis(2-chloroethoxy)methane	2340	1360	"	2720	ND	85.9	27.9-111				
Bis(2-chloroethyl)ether	2330	1360	"	2720	ND	85.8	18-122				
Bis(2-chloroisopropyl)ether	2610	1360	"	2720	ND	96.1	9.62-123				
Bis(2-ethylhexyl)phthalate	2240	1360	"	2720	ND	82.3	25-105				
2-Chloronaphthalene	2180	1360	"	2720	ND	80.2	31.7-108				
2-Chlorophenol	2530	1360	"	2720	ND	92.9	20.3-125				
4-Chlorophenyl phenyl ether	2050	1360	"	2720	ND	75.2	23.6-110				
Chrysene	3100	1360	"	2720	898	80.9	27.4-117				
Dibenzo(a,h)anthracene	2980	1360	"	2720	ND	110	14.6-119				
Dibenzofuran	2280	1360	"	2720	ND	83.7	30.2-108				
Di-n-butyl phthalate	2210	1360	"	2720	ND	81.2	33.5-100				
1,2-Dichlorobenzene	2360	1360	"	2720	ND	86.6	22.8-114				
1,4-Dichlorobenzene	1700	1360	"	2720	ND	62.6	19.8-121				
1,3-Dichlorobenzene	2240	1360	"	2720	ND	82.3	20.6-119				
3,3'-Dichlorobenzidine	1840	1360	"	2720	ND	67.5	10-180				
2,4-Dichlorophenol	2150	1360	"	2720	ND	79.0	23.3-125				
Diethyl phthalate	2370	1360	"	2720	ND	87.0	29.7-111				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD31254 - EPA 3550B

Matrix Spike (BD31254-MS1)	*Source sample: 13D0880-19 (SB-04_10-12)					Prepared & Analyzed: 04/26/2013						
2,4-Dimethylphenol	1560	1360	ug/kg dry	2720	ND	57.5	29.8-115					
Dimethyl phthalate	2300	1360	"	2720	ND	84.6	27-118					
2-Nitroaniline	2420	1360	"	2720	ND	88.9	20.7-122					
4,6-Dinitro-2-methylphenol	ND	2720	"	2720	ND		10-122				Low Bias	
2,4-Dinitrophenol	ND	2720	"	2720	ND		10-151				Low Bias	
2,6-Dinitrotoluene	1950	1360	"	2720	ND	71.5	26.1-119					
2,4-Dinitrotoluene	2010	1360	"	2720	ND	74.0	21.4-126					
Di-n-octyl phthalate	2470	1360	"	2720	ND	90.9	19-129					
Fluoranthene	3900	1360	"	2720	1840	75.4	31.3-110					
Fluorene	2160	1360	"	2720	ND	79.3	29.9-108					
Hexachlorobenzene	2400	1360	"	2720	ND	88.2	31.7-102					
Hexachlorobutadiene	2520	1360	"	2720	ND	92.7	10.1-134					
Hexachlorocyclopentadiene	ND	1360	"	2720	ND		10-122				Low Bias	
Hexachloroethane	2730	1360	"	2720	ND	100	20.2-114					
Indeno(1,2,3-cd)pyrene	3340	1360	"	2720	ND	123	12.6-120				High Bias	
Isophorone	2580	1360	"	2720	ND	94.7	27.2-113					
2-Methylnaphthalene	2280	1360	"	2720	ND	83.8	17.4-119					
2-Methylphenol	2590	1360	"	2720	ND	95.1	23.6-125					
3- & 4-Methylphenols	2150	1360	"	2720	ND	79.0	21.3-115					
Naphthalene	2240	1360	"	2720	ND	82.5	25.2-111					
3-Nitroaniline	2480	1360	"	2720	ND	91.1	9.73-147					
4-Nitroaniline	2370	1360	"	2720	ND	87.1	6.42-169					
Nitrobenzene	2850	1360	"	2720	ND	105	21.8-118					
4-Nitrophenol	1620	1360	"	2720	ND	59.4	10-136					
2-Nitrophenol	2180	1360	"	2720	ND	80.1	20.6-119					
N-nitroso-di-n-propylamine	2580	1360	"	2720	ND	94.9	25.3-118					
N-Nitrosodiphenylamine	2350	1360	"	2720	ND	86.5	35.8-132					
Pentachlorophenol	1250	1360	"	2720	ND	45.8	3.68-146					
Phenanthrene	3150	1360	"	2720	998	79.1	31.2-105					
Phenol	2340	1360	"	2720	ND	85.9	23.2-117					
Pyrene	3540	1360	"	2720	1550	72.9	26.3-124					
1,2,4-Trichlorobenzene	2390	1360	"	2720	ND	88.0	19.3-128					
2,4,5-Trichlorophenol	2090	1360	"	2720	ND	76.7	19.5-131					
2,4,6-Trichlorophenol	2030	1360	"	2720	ND	74.6	24.2-123					
Surrogate: 2,4,6-Tribromophenol	3790		"	4080		92.9	15-110					
Surrogate: 2-Fluorobiphenyl	2420		"	2730		88.8	30-130					
Surrogate: 2-Fluorophenol	3200		"	4080		78.4	15-110					
Surrogate: Nitrobenzene-d5	2860		"	2720		105	30-130					
Surrogate: Phenol-d5	3450		"	4090		84.4	15-110					
Surrogate: Terphenyl-d14	2430		"	2720		89.3	30-130					



**Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

**Batch BD31255 - EPA 3550B**

**Blank (BD31255-BLK1)**

Prepared: 04/26/2013 Analyzed: 04/29/2013

Toxaphene	ND	25.0	ug/kg wet								
Methoxychlor	ND	2.48	"								
Heptachlor epoxide	ND	0.495	"								
Heptachlor	ND	0.495	"								
gamma-BHC (Lindane)	ND	0.495	"								
Endrin ketone	ND	0.495	"								
Endrin aldehyde	ND	0.495	"								
Endrin	ND	0.495	"								
Endosulfan sulfate	ND	0.495	"								
Endosulfan II	ND	0.495	"								
Endosulfan I	ND	0.495	"								
Dieldrin	ND	0.495	"								
delta-BHC	ND	0.495	"								
Chlordane, total	ND	1.98	"								
beta-BHC	ND	0.495	"								
alpha-BHC	ND	0.495	"								
Aldrin	ND	0.495	"								
4,4'-DDT	ND	0.495	"								
4,4'-DDE	ND	0.495	"								
4,4'-DDD	ND	0.495	"								
Aroclor 1260	ND	25.5	"								
Aroclor 1254	ND	25.5	"								
Aroclor 1248	ND	25.5	"								
Aroclor 1242	ND	25.5	"								
Aroclor 1232	ND	25.5	"								
Aroclor 1221	ND	25.5	"								
Aroclor 1016	ND	25.5	"								
Total PCBs	ND	25.5	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	94.8		"	100		94.8		30-150			
<i>Surrogate: Decachlorobiphenyl</i>	88.2		"	100		87.8		30-150			



**Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BD31255 - EPA 3550B**

**LCS (BD31255-BS1)**

Prepared: 04/26/2013 Analyzed: 04/29/2013

Methoxychlor	36.0	2.48	ug/kg wet	50.0		72.1	40-140				
Heptachlor epoxide	31.7	0.495	"	50.0		63.5	40-140				
Heptachlor	30.9	0.495	"	50.0		61.8	40-140				
gamma-BHC (Lindane)	31.3	0.495	"	50.0		62.7	40-140				
Endrin ketone	31.0	0.495	"	50.0		62.1	40-140				
Endrin aldehyde	30.9	0.495	"	50.0		61.9	40-140				
Endrin	36.8	0.495	"	50.0		73.7	40-140				
Endosulfan sulfate	32.2	0.495	"	50.0		64.5	40-140				
Endosulfan II	32.8	0.495	"	50.0		65.6	40-140				
Endosulfan I	34.6	0.495	"	50.0		69.3	40-140				
Dieldrin	33.5	0.495	"	50.0		66.9	40-140				
delta-BHC	32.3	0.495	"	50.0		64.5	40-140				
beta-BHC	32.2	0.495	"	50.0		64.3	40-140				
alpha-BHC	32.0	0.495	"	50.0		63.9	40-140				
Aldrin	33.3	0.495	"	50.0		66.6	40-140				
4,4'-DDT	36.9	0.495	"	50.0		73.7	40-140				
4,4'-DDE	35.5	0.495	"	50.0		71.0	40-140				
4,4'-DDD	37.8	0.495	"	50.0		75.5	40-140				
<i>Surrogate: Tetrachloro-m-xylene</i>	79.2		"	100		79.2	30-150				
<i>Surrogate: Decachlorobiphenyl</i>	70.7		"	100		70.3	30-150				

**LCS (BD31255-BS2)**

Prepared: 04/26/2013 Analyzed: 04/29/2013

Aroclor 1260	216	17.0	ug/kg wet	333		64.9	40-140				
Aroclor 1016	261	17.0	"	333		78.4	40-140				
<i>Surrogate: Tetrachloro-m-xylene</i>	50.3		"	66.7		75.5	30-150				
<i>Surrogate: Decachlorobiphenyl</i>	41.0		"	67.0		61.2	30-150				

**LCS Dup (BD31255-BSD1)**

Prepared: 04/26/2013 Analyzed: 04/29/2013

Methoxychlor	37.5	2.48	ug/kg wet	50.0		74.9	40-140	3.92	200		
Heptachlor epoxide	37.0	0.495	"	50.0		73.9	40-140	15.2	200		
Heptachlor	37.0	0.495	"	50.0		73.9	40-140	17.8	200		
gamma-BHC (Lindane)	36.9	0.495	"	50.0		73.7	40-140	16.2	200		
Endrin ketone	37.0	0.495	"	50.0		73.9	40-140	17.4	200		
Endrin aldehyde	37.1	0.495	"	50.0		74.3	40-140	18.2	200		
Endrin	43.4	0.495	"	50.0		86.9	40-140	16.5	200		
Endosulfan sulfate	38.8	0.495	"	50.0		77.5	40-140	18.4	200		
Endosulfan II	38.6	0.495	"	50.0		77.1	40-140	16.1	200		
Endosulfan I	41.5	0.495	"	50.0		82.9	40-140	18.0	200		
Dieldrin	40.0	0.495	"	50.0		80.1	40-140	17.8	200		
delta-BHC	38.3	0.495	"	50.0		76.7	40-140	17.2	200		
beta-BHC	38.5	0.495	"	50.0		76.9	40-140	17.9	200		
alpha-BHC	38.0	0.495	"	50.0		76.0	40-140	17.2	200		
Aldrin	40.1	0.495	"	50.0		80.3	40-140	18.5	200		
4,4'-DDT	43.0	0.495	"	50.0		86.0	40-140	15.3	200		
4,4'-DDE	41.2	0.495	"	50.0		82.3	40-140	14.8	200		
4,4'-DDD	44.8	0.495	"	50.0		89.6	40-140	17.1	200		
<i>Surrogate: Tetrachloro-m-xylene</i>	89.7		"	100		89.7	30-150				
<i>Surrogate: Decachlorobiphenyl</i>	77.2		"	100		76.8	30-150				



**Organochlorine Pesticides by EPA SW 846-8081 - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

**Batch BD31255 - EPA 3550B**

**LCS Dup (BD31255-BSD2)**

Prepared: 04/26/2013 Analyzed: 04/29/2013

Aroclor 1260	266	17.0	ug/kg wet	333		79.8	40-140		20.5	25
Aroclor 1016	282	17.0	"	333		84.7	40-140		7.70	25
<i>Surrogate: Tetrachloro-m-xylene</i>	67.7		"	66.7		102	30-150			
<i>Surrogate: Decachlorobiphenyl</i>	63.3		"	67.0		94.5	30-150			

**Matrix Spike (BD31255-MS1)**

\*Source sample: 13D0880-19 (SB-04\_10-12)

Prepared: 04/26/2013 Analyzed: 05/01/2013

Methoxychlor	41.3	8.98	ug/kg dry	36.3	ND	114	30-150			
Heptachlor epoxide	35.8	1.80	"	36.3	ND	98.8	30-150			
Heptachlor	39.1	1.80	"	36.3	ND	108	30-150			
gamma-BHC (Lindane)	34.5	1.80	"	36.3	ND	95.0	30-150			
Endrin ketone	35.9	1.80	"	36.3	ND	99.1	30-150			
Endrin aldehyde	39.5	1.80	"	36.3	ND	109	30-150			
Endrin	43.6	1.80	"	36.3	ND	120	30-150			
Endosulfan sulfate	36.8	1.80	"	36.3	ND	101	30-150			
Endosulfan II	36.1	1.80	"	36.3	ND	99.5	30-150			
Endosulfan I	35.8	1.80	"	36.3	ND	98.8	30-150			
Dieldrin	37.9	1.80	"	36.3	ND	105	30-150			
delta-BHC	34.5	1.80	"	36.3	ND	95.0	30-150			
beta-BHC	37.9	1.80	"	36.3	ND	105	30-150			
alpha-BHC	33.1	1.80	"	36.3	ND	91.2	30-150			
Aldrin	37.4	1.80	"	36.3	ND	103	30-150			
4,4'-DDT	49.3	1.80	"	36.3	9.22	110	30-150			
4,4'-DDE	41.6	1.80	"	36.3	3.49	105	30-150			
4,4'-DDD	43.7	1.80	"	36.3	ND	120	30-150			
<i>Surrogate: Tetrachloro-m-xylene</i>	88.3		"	72.5		122	30-150			
<i>Surrogate: Decachlorobiphenyl</i>	95.7		"	72.9		131	30-150			



**Metals by EPA 6000 Series Methods - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BD31240 - EPA 3050B**

**Blank (BD31240-BLK1)**

Prepared & Analyzed: 04/25/2013

Aluminum	ND	2.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	0.500	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.500	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	ND	2.00	"								
Lead	ND	0.300	"								
Magnesium	ND	5.00	"								
Manganese	ND	1.00	"								
Nickel	ND	0.500	"								
Potassium	ND	10.0	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								
Sodium	ND	10.0	"								
Thallium	ND	0.500	"								
Vanadium	ND	0.500	"								
Zinc	ND	0.500	"								

**Duplicate (BD31240-DUP1)**

\*Source sample: 13D0880-12 (MW-03\_0-2)

Prepared & Analyzed: 04/25/2013

Aluminum	10400	2.19	mg/kg dry		10500				1.32	35	
Antimony	0.449	0.548	"		0.434				3.46	35	
Arsenic	4.96	1.10	"		5.03				1.56	35	
Barium	208	0.548	"		209				0.486	35	
Beryllium	ND	0.110	"		ND					35	
Cadmium	ND	0.548	"		ND					35	
Calcium	2890	5.48	"		2910				0.627	35	
Chromium	15.1	0.548	"		14.6				3.33	35	
Cobalt	4.69	0.548	"		4.77				1.67	35	
Copper	24.0	0.548	"		24.4				1.64	35	
Iron	14100	2.19	"		14100				0.175	35	
Lead	351	0.329	"		352				0.417	35	
Magnesium	1730	5.48	"		1740				0.931	35	
Manganese	310	1.10	"		308				0.423	35	
Nickel	10.9	0.548	"		10.7				1.71	35	
Potassium	740	11.0	"		749				1.28	35	
Selenium	1.97	0.548	"		1.93				1.90	35	
Silver	ND	0.548	"		ND					35	
Sodium	185	11.0	"		196				5.51	35	
Thallium	ND	0.548	"		ND					35	
Vanadium	20.5	0.548	"		20.7				1.03	35	
Zinc	169	0.548	"		169				0.446	35	



Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result	Limits	Limit				

Batch BD31240 - EPA 3050B

Matrix Spike (BD31240-MS1)	*Source sample: 13D0880-12 (MW-03_0-2)						Prepared & Analyzed: 04/25/2013				
Aluminum	10600	2.19	mg/kg dry	219	10500	51.8	75-125	Low Bias			
Antimony	28.9	0.548	"	27.4	0.434	104	75-125				
Arsenic	224	1.10	"	219	5.03	100	75-125				
Barium	419	0.548	"	219	209	95.8	75-125				
Beryllium	4.65	0.110	"	5.48	ND	84.7	75-125				
Cadmium	5.43	0.548	"	5.48	ND	99.0	75-125				
Chromium	37.0	0.548	"	21.9	14.6	102	75-125				
Cobalt	60.0	0.548	"	54.8	4.77	101	75-125				
Copper	51.8	0.548	"	27.4	24.4	99.9	75-125				
Iron	14000	2.19	"	110	14100	NR	75-125	Low Bias			
Lead	410	0.329	"	54.8	352	106	75-125				
Magnesium	1720	5.48	"		1740		75-125				
Manganese	358	1.10	"	54.8	308	90.0	75-125				
Nickel	67.1	0.548	"	54.8	10.7	103	75-125				
Potassium	733	11.0	"		749		75-125				
Silver	4.20	0.548	"	5.48	ND	76.7	75-125				
Sodium	180	11.0	"		196		75-125				
Thallium	217	0.548	"	219	ND	99.2	75-125				
Vanadium	71.2	0.548	"	54.8	20.7	92.2	75-125				
Zinc	216	0.548	"	54.8	169	84.4	75-125				

Reference (BD31240-SRM1)

Prepared & Analyzed: 04/25/2013										
Aluminum	7130	2.00	mg/kg wet	8360		85.3	40.4-159			
Antimony	123	0.500	"	92.9		132	24.8-272			
Arsenic	93.7	1.00	"	94.5		99.2	69.2-131			
Barium	156	0.500	"	166		94.1	72.9-127			
Beryllium	51.2	0.100	"	52.6		97.3	73-127			
Cadmium	55.8	0.500	"	59.9		93.2	73.1-127			
Calcium	5930	5.00	"	6160		96.3	73.9-126			
Chromium	63.2	0.500	"	69.3		91.2	68.4-132			
Cobalt	100	0.500	"	101		99.4	74.2-125			
Copper	80.7	0.500	"	78.0		103	73.6-126			
Iron	11500	2.00	"	12800		89.9	31.8-168			
Lead	87.3	0.300	"	91.7		95.1	70.2-130			
Magnesium	2860	5.00	"	3030		94.3	66-134			
Manganese	268	1.00	"	283		94.7	73.9-125			
Nickel	59.5	0.500	"	56.6		105	70-130			
Potassium	3750	10.0	"	3820		98.2	64.7-136			
Selenium	160	0.500	"	159		100	67.9-133			
Silver	30.7	0.500	"	33.9		90.7	65.5-135			
Sodium	718	10.0	"	652		110	55.1-145			
Thallium	113	0.500	"	119		94.7	67.6-133			
Vanadium	50.3	0.500	"	56.3		89.4	53.3-147			
Zinc	128	0.500	"	137		93.6	67.4-133			



**Mercury by EPA 7000/200 Series Methods - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD31305 - EPA SW846-7471</b>											
<b>Blank (BD31305-BLK1)</b>											
										Prepared & Analyzed: 04/26/2013	
Mercury	ND	0.100	mg/kg wet								
<b>LCS (BD31305-BS1)</b>											
										Prepared & Analyzed: 04/26/2013	
Mercury	3.41		mg/kg	3.73		91.4	67.6-131				
<b>Duplicate (BD31305-DUP1)</b>											
	*Source sample: 13D0880-12 (MW-03_0-2)									Prepared & Analyzed: 04/26/2013	
Mercury	ND	0.110	mg/kg dry		ND						35
<b>Matrix Spike (BD31305-MS1)</b>											
	*Source sample: 13D0880-12 (MW-03_0-2)									Prepared & Analyzed: 04/26/2013	
Mercury	0.310		mg/kg	0.333	ND	93.1	75-125				



## Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13D0880-01	MW-03_1-2	Encore Sampler
13D0880-02	MW-03_11-12	Encore Sampler
13D0880-03	SB-08_1-2	Encore Sampler
13D0880-04	SB-08_11-12	Encore Sampler
13D0880-05	MW-02_1-2	Encore Sampler
13D0880-06	MW-02_11-12	Encore Sampler
13D0880-07	SB-04_1-2	Encore Sampler
13D0880-08	SB-04_11-12	Encore Sampler
13D0880-09	SB-06_1-2	Encore Sampler
13D0880-10	MW-07_1-2	Encore Sampler
13D0880-11	MW-07_11-12	Encore Sampler
13D0880-24	SB-06_11-12	Encore Sampler

### Notes and Definitions

VOA-CONTNON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A or NYSDOH ELAP. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A.

- S-GC Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
- S-AC Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration.

---

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis



**Low Bias** Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

**High Bias** High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

**Non-Dir.** Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

---

Corrective Action: Sample (SB-06\_11-12) For TCL VOC Recvd. Without Encores Used: Submitted Without Sample



YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 13D0880

## YOUR Information

Company: LANGAN  
Address: NYC  
Phone No. 646-434-8211  
Attention: D. CARRS  
E-Mail Address: dcarrs@langan.com

## Report To:

Company: SAME  
Address: SAME  
Phone No. \_\_\_\_\_  
Attention: \_\_\_\_\_  
E-Mail Address: \_\_\_\_\_

## Invoice To:

Company: SAME  
Address: SAME  
Phone No. \_\_\_\_\_  
Attention: \_\_\_\_\_  
E-Mail Address: \_\_\_\_\_

## YOUR Project ID

170157901  
Purchase Order No. \_\_\_\_\_

## Turn-Around Time

RUSH - Same Day   
RUSH - Next Day   
RUSH - Two Day   
RUSH - Three Day   
RUSH - Four Day

## Report Type

Summary Report \_\_\_\_\_  
Summary w/ QA Summary \_\_\_\_\_  
CT RCP Package \_\_\_\_\_  
CTRCP DQA/DUE Pkg \_\_\_\_\_  
NY ASP A Package \_\_\_\_\_  
NY ASP B Package \_\_\_\_\_  
NJDEP Red. Deliv. \_\_\_\_\_

## Standard (5-7 Days)

Electronic Data Deliverables (EDD) \_\_\_\_\_  
Simple Excel \_\_\_\_\_  
NYSDEC EquIS \_\_\_\_\_  
EQuIS (std) \_\_\_\_\_  
EZ-EDD (EQuIS) \_\_\_\_\_  
NJDEP SRP HazSite EDD \_\_\_\_\_  
GIS/KEY (std) \_\_\_\_\_  
Other: NYC OER  
York Regulatory Comparison \_\_\_\_\_  
Excel Spreadsheet \_\_\_\_\_  
Compare to the following Regs. (please fill in): \_\_\_\_\_

**Print Clearly and Legibly. All information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Samples Collected/Authorized By (Signature)  
D. Carrs

Name (printed)  
D. CARRS

Matrix Codes  
S - soil  
Other - specify (oil, etc.)  
WW - wastewater  
GW - groundwater  
DW - drinking water  
Air-A - ambient air  
Air-SV - soil vapor

Semi-Vols. 8270 or 625  
STARS list  
BN Only  
Acids Only  
PAH list  
TAGM list  
CT RCP list  
TCL list  
NJDEP list  
App. IX  
TCLP BNA  
SPLP or TCLP

Misc. Org. TPH GRO  
TPH DRO  
CT ETPH  
NY 310-13  
TPH 1664  
Air TO14A  
Air TO15  
Air STARS  
Air VPH  
Air TICs  
Methane  
Helium

Full Lists Tri.Poll.  
TCL Organics  
TAL MetCN  
Full TCLP  
Full App. IX  
Part 360-1  
Part 360-2  
Part 360-3  
NYCDEP Sewer  
NYSDEC Sewer  
TAGM  
Silica

## Sample Matrix

SOIL

TCL VOL

## Choose Analyses Needed from the Menu Above and Enter Below

3X Sy extra

## Sample Identification

MW-03-1-2  
MW-03-11-12  
SB-08-1-2  
SB-08-11-12  
MW-02-1-2  
MW-02-11-12  
SB-04-1-2  
SB-04-11-12  
SB-06-1-2  
SB-06-11-12

## Date/Time Sampled

2013-04-23  
2013-04-23  
2013-04-23  
2013-04-23  
2013-04-24

## Container Description(s)

3X Sy extra

## Comments

201 MOTHER GASTON BLVD  
BKlyn NY

## Preservation

Check those Applicable  
Special Instructions  
Field Filtered   
Lab to Filter

## 4°C

DCARRS  
Samples Relinquished By  
Date/Time 2013-04-24

## HNO<sub>3</sub>

15 Baku  
Samples Received By  
Date/Time 4-24-13

## H<sub>2</sub>O<sub>2</sub>

240  
Samples Received in LAB by  
Date/Time 4-24-13 1720

## NaOH

Temperature on Receipt  
3.4 °C



YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

Page 2 of 3

York Project No. 13D0880

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

<b>YOUR Information</b> Company: _____ Address: _____ Phone No. _____ Contact Person: _____ E-Mail Address: _____		<b>Report To:</b> Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		<b>Invoice To:</b> Company: _____ Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		<b>YOUR Project ID</b> <u>170157901</u> <b>Purchase Order No.</b> _____		<b>Turn-Around Time</b> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> <b>Standard(5-7 Days)</b> <input type="checkbox"/>		<b>Report Type</b> Summary Report _____ Summary w/ QA Summary _____ CT RCP Package _____ CTRCP DQA/DUE Pkg _____ NY ASP A Package _____ NY ASP B Package _____ NJDEP Red. Deliv. _____ <i>Electronic Data Deliverables (EDD)</i> Simple Excel _____ NYSDEC EQULS _____ EQULS (std) _____ EZ-EDD (EQULS) _____ NJDEP SRP HazSite EDD _____ GIS/KEY (std) _____ Other _____ York Regulatory Comparison _____ Excel Spreadsheet _____ Compare to the following Regs. (please fill in): _____	
<b>Volatiles</b> 8260 full _____ 624 _____ STARS list _____ BN Only _____ Acids Only _____ PAH list _____ TAGM list _____ CT RCP list _____ TCL list _____ TAGM list _____ CT RCP list _____ TCL list _____ Arom. only _____ Halog. only _____ App. IX list _____ 8021B list _____		<b>Semi-Vols. Pesticides</b> 8270 or 625 _____ 8082PCB _____ 8081Pest _____ 8151Herb _____ CT RCP _____ App. IX _____ Site Spec. _____ SPL or TCLP _____ Total _____ Dissolved _____ SPL or TCLP _____ Inhib. Meth _____ LIST Below _____		<b>Metals</b> RCRA8 _____ PP13 list _____ TAL _____ CT15 list _____ TAGM list _____ NJDEP list _____ Total _____ Dissolved _____ SPL or TCLP _____ Inhib. Meth _____ LIST Below _____		<b>Misc. Org.</b> TPH GRO _____ TPH DRO _____ CT ETPH _____ NY 310-13 _____ TPH 1664 _____ Air TO14A _____ Air TO15 _____ Air STARS _____ Air VPH _____ Air TICs _____ Methane _____ Helium _____		<b>Full Lists</b> Pri. Poll. _____ TCL Organics _____ TAL MerCn _____ Full TCLP _____ Full App. IX _____ Par:360-Routine _____ Par:360-Baseline _____ Par:360-Exposel _____ Par:360-Exposel No. Baseline Form _____ Par:360-Exposel No. Baseline Form _____ NYCDEP-Sever _____ NYSDC-Sever _____ TAGM _____ Silica _____		<b>Misc.</b> Conductivity _____ Reactivity _____ Ignitability _____ Flash Point _____ Sieve Anal. _____ Heteroatoms _____ TOX _____ BTU/lb. _____ Aquatic Tox. _____ TOC _____ NYSDC-Sever _____ Asbestos _____ Silica _____	

**Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.**

Matrix Codes  
 S - soil  
 Other - specify(oil, etc.) \_\_\_\_\_  
 WW - wastewater  
 GW - groundwater  
 DW - drinking water  
 Air-A - ambient air  
 Air-SV - soil vapor

Samples Collected/Authorized By (Signature)  
D. CARLOS  
 Name (printed)

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW-07-1-2	2013.01.24	SOIL	TCL VOC	3X Syringe
MW-07-11-12		SOIL	TCL SVOC	1 8oz JAR
MW-03-0-2				
MW-03-10-12				
SB-08-0-2				
SB-08-10-12				
MW-02-0-2				
MW-02-10-12				
SB-04-0-2				
SB-04-10-12				

Comments  
 4°C \_\_\_\_\_ Frozen \_\_\_\_\_ HCl \_\_\_\_\_ HNO<sub>3</sub> \_\_\_\_\_ H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_ MeOH \_\_\_\_\_ NaOH \_\_\_\_\_  
 Ascorbic Acid \_\_\_\_\_ ZnAc \_\_\_\_\_ Other \_\_\_\_\_  
 Samples Relinquished By APM Date/Time 4/24/13 2:40  
 Samples Relinquished By KB Date/Time 4-24-13 4:20  
 Temperature on Receipt 3.4 °C



**NEW YORK**

state department of

**HEALTH**

Nirav R. Shah, M.D., M.P.H.  
Commissioner

Sue Kelly  
Executive Deputy Commissioner

LAB ID: 10854

April 01, 2013

MR. ROBERT Q. BRADLEY  
YORK ANALYTICAL LABORATORIES INC  
120 RESEARCH DRIVE  
STRATFORD, CT 06615

Certificate Expiration Date:  
April 01, 2014

Dear Mr. Bradley,

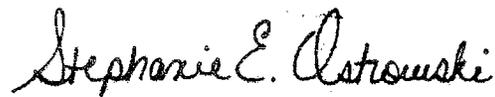
Enclosed are Certificate(s) of Approval issued to your environmental laboratory for the current permit year. The Certificate(s) supersede(s) any previously issued one(s) and is(are) in effect through the expiration date listed. Please carefully examine the Certificate(s) to insure that the categories, subcategories, analytes, and methods for which your laboratory is approved are correct. In addition, verify that your laboratory's name, address, lead technical director, and identification number are accurate.

Pursuant to NYCRR Subpart 55-2.2, original certificates must be posted conspicuously in the laboratory and copies shall be made available to any client of the laboratory upon request.

Pursuant to NYCRR Subpart 55-2.6, any misrepresentation of the Fields of Accreditation (Matrix - Method - Analyte) for which your laboratory is approved may result in denial, suspension, or revocation of your certification. Any use of the Environmental Laboratory Approval Program (ELAP) or National Environmental Laboratory Accreditation Program (NELAP) name, reference to the laboratory's approval status, and/or using the NELAP logo in any catalogs, advertising, business solicitations, proposals, quotations, laboratory analytical reports, or other materials must include the laboratory's ELAP identification number and distinguish between testing for which the laboratory is approved and testing for which the laboratory is not approved.

If you have any questions, please contact ELAP at the New York State Department of Health (NYS DOH), Wadsworth Center, PO Box 509, Albany NY, 12201-0509; by phone at (518) 485-5570; by facsimile at (518) 485-5568; and by email at [elap@health.state.ny.us](mailto:elap@health.state.ny.us).

Sincerely,



STEPHANIE OSTROWSKI, PH.D.  
Program Director  
Environmental Laboratory Approval Program

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014  
Issued April 01, 2013

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY  
YORK ANALYTICAL LABORATORIES INC  
120 RESEARCH DRIVE  
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards (2003) for the category  
**ENVIRONMENTAL ANALYSES POTABLE WATER**  
All approved analytes are listed below:

**Drinking Water Metals I**

Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
	SM 18-19, 21 3113B (99 & 04)
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Seelenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

**Drinking Water Metals II**

Aluminum, Total	EPA 200.8 Rev. 5.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

**Drinking Water Metals II**

Molybdenum, Total	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4
Vanadium, Total	EPA 200.8 Rev. 5.4

**Drinking Water Metals III**

Sodium, Total	EPA 200.7 Rev. 4.4
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**Drinking Water Non-Metals**

Alkalinity	SM 18-21 2320B (97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Color	SM 18-21 2120B (01)
Fluoride, Total	EPA 300.0 Rev. 2.1
Nitrate (as N)	EPA 300.0 Rev. 2.1
Nitrite (as N)	EPA 300.0 Rev. 2.1
Solids, Total Dissolved	SM 18-21 2540C (97)
Sulfate (as SO4)	EPA 300.0 Rev. 2.1

**Drinking Water Trihalomethanes**

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2

**Fuel Additives**

Methyl tert-butyl ether	EPA 524.2
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NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014  
Issued April 01, 2013

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**MR. ROBERT Q. BRADLEY**  
**YORK ANALYTICAL LABORATORIES INC**  
**120 RESEARCH DRIVE**  
**STRATFORD, CT 06615**

**NY Lab Id No: 10854**

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards (2003) for the category  
ENVIRONMENTAL ANALYSES POTABLE WATER  
All approved analytes are listed below:*

**Volatile Aromatics**

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

**Volatile Halocarbons**

1,1,1-Trichloroethane	EPA 524.2
1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 524.2
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**ENVIRONMENTAL ANALYSES NON POTABLE WATER**  
All approved analytes are listed below:

Acrylates		Chlorinated Hydrocarbon Pesticides	
Acrolein (Propenal)	EPA 8260B	Chlordane Total	EPA 8081A
Acrylonitrile	EPA 8260B	delta-BHC	EPA 608
			EPA 8081A
<b>Amines</b>		Dieldrin	EPA 608
Pyridine	EPA 8270C		EPA 8081A
<b>Benzidines</b>		Endosulfan I	EPA 608
3,3'-Dichlorobenzidine	EPA 625		EPA 8081A
	EPA 8270C	Endosulfan II	EPA 608
	EPA 8270D		EPA 8081A
Benzidine	EPA 625	Endosulfan sulfate	EPA 608
	EPA 8270C		EPA 8081A
<b>Chlorinated Hydrocarbon Pesticides</b>		Endrin	EPA 608
4,4'-DDD	EPA 608		EPA 8081A
	EPA 8081A	Endrin aldehyde	EPA 608
4,4'-DDE	EPA 608		EPA 8081A
	EPA 8081A	Heptachlor	EPA 608
4,4'-DDT	EPA 608		EPA 8081A
	EPA 8081A	Heptachlor epoxide	EPA 608
Aldrin	EPA 608		EPA 8081A
	EPA 8081A	Lindane	EPA 608
alpha-BHC	EPA 608		EPA 8081A
	EPA 8081A	Methoxychlor	EPA 608
beta-BHC	EPA 608		EPA 8081A
	EPA 8081A	Toxaphene	EPA 608
Chlordane Total	EPA 608		EPA 8081A

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**ENVIRONMENTAL ANALYSES NON POTABLE WATER**  
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**Chlorinated Hydrocarbons**

1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 625
	EPA 8270C
	EPA 8270D
2-Chloronaphthalene	EPA 625
	EPA 8270C
	EPA 8270D
Hexachlorobenzene	EPA 625
	EPA 8270C
	EPA 8270D
Hexachlorobutadiene	EPA 625
	EPA 8270C
	EPA 8270D
Hexachlorocyclopentadiene	EPA 625
	EPA 8270C
	EPA 8270D
Hexachloroethane	EPA 625
	EPA 8270C
	EPA 8270D

**Demand**

Biochemical Oxygen Demand	SM 18-21 5210B (01)
Carbonaceous BOD	SM 18-21 5210B (01)
Chemical Oxygen Demand	SM 18-21 5220D (97)

**Fuel Oxygenates**

Di-isopropyl ether	EPA 8260B
Ethanol	EPA 8260B
Methyl tert-butyl ether	EPA 8260B
tert-amyl alcohol	EPA 8260B
tert-amyl methyl ether (TAME)	EPA 8260B
tert-butyl alcohol	EPA 8260B
tert-butyl ethyl ether (ETBE)	EPA 8260B

**Malcoethers**

4-Bromophenylphenyl ether	EPA 625
	EPA 8270C
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 625
	EPA 8270C
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 625
	EPA 8270C
	EPA 8270D
Bis(2-chloroethyl)ether	EPA 625
	EPA 8270C
	EPA 8270D
Bis(2-chloroisopropyl) ether	EPA 625

**Chlorophenoxy Acid Pesticides**

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A

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**Haloethers**

Bis(2-chloroisopropyl) ether EPA 8270C  
EPA 8270D

**Low Level Polynuclear Aromatics**

Acenaphthene Low Level EPA 8270D  
Acenaphthylene Low Level EPA 8270D  
Anthracene Low Level EPA 8270D  
Benzo(a)anthracene Low Level EPA 8270D  
Benzo(a)pyrene Low Level EPA 8270D  
Benzo(b)fluoranthene Low Level EPA 8270D  
Benzo(g,h,i)perylene Low Level EPA 8270D  
Chrysene Low Level EPA 8270D  
Dibenzo(a,h)anthracene Low Level EPA 8270D  
Fluoranthene Low Level EPA 8270D  
Fluorene Low Level EPA 8270D  
Indeno(1,2,3-cd)pyrene Low Level EPA 8270D  
Naphthalene Low Level EPA 8270D  
Phenanthrene Low Level EPA 8270D  
Pyrene Low Level EPA 8270D

**Nitroaromatics and Isophorone**

2,4-Dinitrotoluene EPA 625  
EPA 8270C  
EPA 8270D  
2,6-Dinitrotoluene EPA 625  
EPA 8270C  
EPA 8270D

**Nitroaromatics and Isophorone**

Isophorone EPA 625  
EPA 8270C  
EPA 8270D  
Nitrobenzene EPA 625  
EPA 8270C  
EPA 8270D

**Nitrosoamines**

N-Nitrosodimethylamine EPA 8270D  
N-Nitrosodi-n-propylamine EPA 625  
EPA 8270C  
EPA 8270D  
N-Nitrosodiphenylamine EPA 625  
EPA 8270C  
EPA 8270D

**Nutrient**

Ammonia (as N) SM 19-21 4500-NH3 D or E (97)  
Kjeldahl Nitrogen, Total SM 19-21 4500-NH3 D or E (97)  
Nitrate (as N) EPA 300.0 Rev. 2.1  
Nitrite (as N) EPA 300.0 Rev. 2.1  
Orthophosphate (as P) EPA 300.0 Rev. 2.1  
Phosphorus, Total SM 19-21 4500-P E

**Petroleum Hydrocarbons**

Diesel Range Organics EPA 8015B  
Gasoline Range Organics EPA 8260B

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All approved analytes are listed below:*

**Phthalate Esters**

**Polychlorinated Biphenyls**

Benzyl butyl phthalate	EPA 625
	EPA 8270C
	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 625
	EPA 8270C
	EPA 8270D
Diethyl phthalate	EPA 625
	EPA 8270C
	EPA 8270D
Dimethyl phthalate	EPA 625
	EPA 8270C
	EPA 8270D
Di-n-butyl phthalate	EPA 625
	EPA 8270C
	EPA 8270D
Di-n-octyl phthalate	EPA 625
	EPA 8270C
	EPA 8270D

PCB-1242	EPA 608
	EPA 8082
PCB-1248	EPA 608
	EPA 8082
PCB-1254	EPA 608
	EPA 8082
PCB-1260	EPA 608
	EPA 8082

**Polynuclear Aromatics**

Acenaphthene	EPA 625
	EPA 8270C
	EPA 8270D
Acenaphthylene	EPA 625
	EPA 8270C
	EPA 8270D
Anthracene	EPA 625
	EPA 8270C
	EPA 8270D
Benzo(a)anthracene	EPA 625
	EPA 8270C
	EPA 8270D
Benzo(a)pyrene	EPA 625
	EPA 8270C
	EPA 8270D
Benzo(b)fluoranthene	EPA 625

**Polychlorinated Biphenyls**

PCB-1016	EPA 608
	EPA 8082
PCB-1221	EPA 608
	EPA 8082
PCB-1232	EPA 608
	EPA 8082

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Polynuclear Aromatics		Polynuclear Aromatics	
Benzo(b)fluoranthene	EPA 8270C EPA 8270D	Phenanthrene	EPA 625 EPA 8270C EPA 8270D
Benzo(ghi)perylene	EPA 625 EPA 8270C EPA 8270D	Pyrene	EPA 625 EPA 8270C EPA 8270D
Benzo(k)fluoranthene	EPA 625 EPA 8270C EPA 8270D		
Chrysene	EPA 625 EPA 8270C EPA 8270D	<b>Priority Pollutant Phenols</b>	
Dibenzo(a,h)anthracene	EPA 625 EPA 8270C EPA 8270D	2,4,5-Trichlorophenol	EPA 625 EPA 8270C EPA 8270D
Fluoranthene	EPA 625 EPA 8270C EPA 8270D	2,4,6-Trichlorophenol	EPA 625 EPA 8270C EPA 8270D
Fluorene	EPA 625 EPA 8270C EPA 8270D	2,4-Dichlorophenol	EPA 625 EPA 8270C EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 625 EPA 8270C EPA 8270D	2,4-Dimethylphenol	EPA 625 EPA 8270C EPA 8270D
Naphthalene	EPA 625 EPA 8270C EPA 8270D	2,4-Dinitrophenol	EPA 625 EPA 8270C EPA 8270D
		2-Chlorophenol	EPA 625 EPA 8270C EPA 8270D

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Priority Pollutant Phenols		Residue	
2-Methyl-4,6-dinitrophenol	EPA 625	Solids, Total Suspended	SM 18-21 2540D (97)
	EPA 8270C		
	EPA 8270D		
2-Methylphenol	EPA 8270D	<b>Semi-Volatile Organics</b>	
2-Nitrophenol	EPA 625	1,2-Dichlorobenzene, Semi-volatile	EPA 8270C
	EPA 8270C		EPA 8270D
	EPA 8270D	1,3-Dichlorobenzene, Semi-volatile	EPA 8270C
4-Chloro-3-methylphenol	EPA 625		EPA 8270D
	EPA 8270C	1,4-Dichlorobenzene, Semi-volatile	EPA 8270C
	EPA 8270D		EPA 8270D
4-Methylphenol	EPA 8270D	2-Methylnaphthalene	EPA 8270D
4-Nitrophenol	EPA 625	Benzyl alcohol	EPA 8270D
	EPA 8270C	Dibenzofuran	EPA 8270D
	EPA 8270D		
Cresols, Total	EPA 8270C	<b>Volatile Aromatics</b>	
	EPA 8270D	1,2,4-Trichlorobenzene, Volatile	EPA 8260B
Pentachlorophenol	EPA 625	1,2,4-Trimethylbenzene	EPA 8260B
	EPA 8270C	1,2-Dichlorobenzene	EPA 624
	EPA 8270D		EPA 8260B
Phenol	EPA 625	1,3,5-Trimethylbenzene	EPA 8260B
	EPA 8270C	1,3-Dichlorobenzene	EPA 624
	EPA 8270D		EPA 8260B
		1,4-Dichlorobenzene	EPA 624
			EPA 8260B
<b>Residue</b>		2-Chlorotoluene	EPA 8260B
Solids, Total	SM 18-21 2540B (97)	4-Chlorotoluene	EPA 8260B
Solids, Total Dissolved	SM 18-21 2540C (97)	Benzene	EPA 624
			EPA 8260B

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Volatile Aromatics		Volatile Halocarbons	
Bromobenzene	EPA 8260B	1,1,2-Trichloroethane	EPA 8260B
Chlorobenzene	EPA 624	1,1-Dichloroethane	EPA 624
	EPA 8260B		EPA 8260B
Ethyl benzene	EPA 624	1,1 Dichloroethene	EPA 624
	EPA 8260B		EPA 8260B
Isopropylbenzene	EPA 8260B	1,1-Dichloropropene	EPA 8260B
Naphthalene, Volatile	EPA 8260B	1,2,3-Trichloropropane	EPA 8260B
n-Butylbenzene	EPA 8260B	1,2-Dibromo-3-chloropropane	EPA 8260B
n-Propylbenzene	EPA 8260B	1,2-Dibromoethane	EPA 8260B
p-Isopropyltoluene (P-Cymene)	EPA 8260B	1,2-Dichloroethane	EPA 624
sec-Butylbenzene	EPA 8260B		EPA 8260B
Styrene	EPA 8260B	1,2-Dichloropropane	EPA 624
tert-Butylbenzene	EPA 8260B		EPA 8260B
Toluene	EPA 624	1,3-Dichloropropane	EPA 8260B
	EPA 8260B	2,2-Dichloropropane	EPA 8260B
Total Xylenes	EPA 624	2-Chloroethylvinyl ether	EPA 8260B
	EPA 8260B	Bromochloromethane	EPA 8260B
		Bromodichloromethane	EPA 624
			EPA 8260B
<b>Volatile Halocarbons</b>		Bromoform	EPA 624
1,1,1,2-Tetrachloroethane	EPA 8260B		EPA 8260B
1,1,1-Trichloroethane	EPA 624		EPA 8260B
	EPA 8260B	Carbon tetrachloride	EPA 624
1,1,2,2-Tetrachloroethane	EPA 624		EPA 8260B
	EPA 8260B	Chloroethane	EPA 624
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260B		EPA 8260B
1,1,2-Trichloroethane	EPA 624	Chloroform	EPA 624

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**Volatlie Halocarbons**

Chloroform	EPA 8260B
Chloromethane	EPA 624
	EPA 8260B
cis-1,2-Dichloroethene	EPA 8260B
cis-1,3-Dichloropropene	EPA 624
	EPA 8260B
Dibromochloromethane	EPA 624
	EPA 8260B
Dibromomethane	EPA 8260B
Dichlorodifluoromethane	EPA 624
	EPA 8260B
Hexachlorobutadiene, Volatile	EPA 8260B
Methylene chloride	EPA 624
	EPA 8260B
Tetrachloroethene	EPA 624
	EPA 8260B
trans-1,2-Dichloroethene	EPA 624
	EPA 8260B
trans-1,3-Dichloropropene	EPA 624
	EPA 8260B
Trichloroethene	EPA 624
	EPA 8260B
Trichlorofluoromethane	EPA 8260B
Vinyl chloride	EPA 624
	EPA 8260B

**Volatiles Organics**

2-Butanone (Methylethyl ketone) EPA 8260B

**Wastewater Metals I**

Barium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
Iron, Total	EPA 6010B
Lead, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
	EPA 6010B
Magnesium, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 6010B
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 6010B

**Wastewater Metals II**

Aluminum, Total EPA 200.7 Rev. 4.4

**Serial No.: 48421**

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NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2014  
Issued April 01, 2013

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**MR. ROBERT Q. BRADLEY**  
**YORK ANALYTICAL LABORATORIES INC**  
**120 RESEARCH DRIVE**  
**STRATFORD, CT 06615**

*NY Lab Id No: 10854*

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards (2003) for the category  
ENVIRONMENTAL ANALYSES NON POTABLE WATER  
All approved analytes are listed below:*

**Wastewater Metals II**

Aluminum, Total	EPA 6010B
Antimony, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Arsenic, Total	EPA 200.7 Rev. 4.4 EPA 200.8 Rev. 5.4 EPA 6010B
Beryllium, Total	EPA 200.7 Rev. 4.4 EPA 200.8 Rev. 5.4 EPA 6010B
Chromium VI	EPA 7196A
Mercury, Total	EPA 245.1 Rev. 3.0 EPA 245.2 Rev. 1974 EPA 7470A
Selenium, Total	EPA 200.7 Rev. 4.4 EPA 200.8 Rev. 5.4 EPA 6010B
Vanadium, Total	EPA 200.7 Rev. 4.4 EPA 6010B
Zinc, Total	EPA 200.7 Rev. 4.4 EPA 6010B

**Wastewater Metals III**

Thallium, Total	EPA 200.8 Rev. 5.4 EPA 6010B
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**Wastewater Miscellaneous**

Cyanide, Total	SM 18-21 4500-CN E (99)
Oil and Grease Total Recoverable (HEM)	EPA 1664A
Organic Carbon, Total	SM 18-21 5310C (00)
Phenols	EPA 420.1 Rev. 1978
Surfactant (MBAS)	SM 18-21 5540C (00)

**Sample Preparation Methods**

EPA 3005A
EPA 3010A
EPA 3020A
EPA 3510C
EPA 5030B
SM 18-20 4500-CN C
SM 18-21 4500-N Org B or C (S
SM 18-21 4500-P b.5

**Wastewater Metals III**

Molybdenum, Total	EPA 200.7 Rev. 4.4 EPA 200.8 Rev. 5.4 EPA 6010B
Thallium, Total	EPA 200.7 Rev. 4.4

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE*

*All approved analytes are listed below:*

**Acrylates**

Acrylonitrile EPA 8260B

**Amines**

2-Nitroaniline EPA 8270D  
3-Nitroaniline EPA 8270D  
4-Chloroaniline EPA 8270D  
4-Nitroaniline EPA 8270D  
Aniline EPA 8270D  
Carbazole EPA 8270D  
Diphenylamine EPA 8270D

**Benzidines**

3,3'-Dichlorobenzidine EPA 8270D

**Characteristic Testing**

E.P. Toxicity EPA 1310  
Ignitability EPA 1010A  
Reactivity SW-846 Ch7 Sec. 7.3  
TCLP EPA 1311

**Chlorinated Hydrocarbon Pesticides**

4,4'-DDD EPA 8081A  
4,4'-DDE EPA 8081A  
4,4'-DDT EPA 8081A  
Aldrin EPA 8081A  
alpha-BHC EPA 8081A  
beta-BHC EPA 8081A  
Chlordane Total EPA 8081A

**Chlorinated Hydrocarbon Pesticides**

delta-BHC EPA 8081A  
Dieldrin EPA 8081A  
Endosulfan I EPA 8081A  
Endosulfan II EPA 8081A  
Endosulfan sulfate EPA 8081A  
Endrin EPA 8081A  
Endrin aldehyde EPA 8081A  
Heptachlor EPA 8081A  
Heptachlor epoxide EPA 8081A  
Lindane EPA 8081A  
Methoxychlor EPA 8081A  
Toxaphene EPA 8081A

**Chlorinated Hydrocarbons**

1,2,4-Trichlorobenzene EPA 8270C  
EPA 8270D  
2-Chloronaphthalene EPA 8270C  
EPA 8270D  
Hexachlorobenzene EPA 8270C  
EPA 8270D  
Hexachlorobutadiene EPA 8270C  
EPA 8270D  
Hexachlorocyclopentadiene EPA 8270C  
EPA 8270D  
Hexachloroethane EPA 8270C  
EPA 8270D

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All approved analytes are listed below:*

**Chlorophenoxy Acid Pesticides**

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A

**Haloethers**

4-Bromophenylphenyl ether	EPA 8270C
	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270C
	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270C
	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D
Bis(2-chloroisopropyl) ether	EPA 8270C
	EPA 8270D

**Metals I**

Barium, Total	EPA 6010B
	EPA 6020
Cadmium, Total	EPA 6010B
	EPA 6020
Calcium, Total	EPA 6010B
Chromium, Total	EPA 6010B
	EPA 6020
Copper, Total	EPA 6010B
	EPA 6020
Iron, Total	EPA 6010B

**Metals I**

Lead, Total	EPA 6010B
	EPA 6020
Magnesium, Total	EPA 6010B
Manganese, Total	EPA 6010B
	EPA 6020
Nickel, Total	EPA 6010B
	EPA 6020
Potassium, Total	EPA 6010B
Silver, Total	EPA 6010B
	EPA 6020
Sodium, Total	EPA 6010B

**Metals II**

Aluminum, Total	EPA 6010B
	EPA 6020
Antimony, Total	EPA 6010B
	EPA 6020
Arsenic, Total	EPA 6010B
	EPA 6020
Beryllium, Total	EPA 6010B
	EPA 6020
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471A
Selenium, Total	EPA 6010B
	EPA 6020
Vanadium, Total	EPA 6010B

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**Metals II**

Vanadium, Total	EPA 6020
Zinc, Total	EPA 6010B EPA 6020

**Nitrosoamines**

N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270C EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D

**Metals III**

Cobalt, Total	EPA 6010B EPA 6020
Molybdenum, Total	EPA 6010B EPA 6020
Thallium, Total	EPA 6010B EPA 6020
Tin, Total	EPA 6010B

**Petroleum Hydrocarbons**

Diesel Range Organics	EPA 8015B
Gasoline Range Organics	EPA 8260B

**Phthalate Esters**

Benzyl butyl phthalate	EPA 8270C EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270C EPA 8270D
Diethyl phthalate	EPA 8270C EPA 8270D
Dimethyl phthalate	EPA 8270C EPA 8270D
Di-n-butyl phthalate	EPA 8270C EPA 8270D
Di-n-octyl phthalate	EPA 8270C EPA 8270D

**Miscellaneous**

Extractable Organic Halides	EPA 9023
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**Nitroaromatics and Isophorone**

2,4-Dinitrotoluene	EPA 8270C EPA 8270D
2,6-Dinitrotoluene	EPA 8270C EPA 8270D
Isophorone	EPA 8270C EPA 8270D
Nitrobenzene	EPA 8270C EPA 8270D
Pyridine	EPA 8270D

**Polychlorinated Biphenyls**

PCB-1016	EPA 8082
PCB-1221	EPA 8082
PCB-1232	EPA 8082

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**Polychlorinated Biphenyls**

PCB-1242	EPA 8082
PCB-1248	EPA 8082
PCB-1254	EPA 8082
PCB-1260	EPA 8082

**Polynuclear Aromatic Hydrocarbons**

Acenaphthene	EPA 8270C
	EPA 8270D
Acenaphthylene	EPA 8270C
	EPA 8270D
Anthracene	EPA 8270C
	EPA 8270D
Benzo(a)anthracene	EPA 8270C
	EPA 8270D
Benzo(a)pyrene	EPA 8270C
	EPA 8270D
Benzo(b)fluoranthene	EPA 8270C
	EPA 8270D
Benzo(ghi)perylene	EPA 8270C
	EPA 8270D
Chrysene	EPA 8270C
	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270C
	EPA 8270D
Fluoranthene	EPA 8270C
	EPA 8270D

**Polynuclear Aromatic Hydrocarbons**

Fluorene	EPA 8270C
	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270C
	EPA 8270D
Naphthalene	EPA 8270C
	EPA 8270D
Phenanthrene	EPA 8270C
	EPA 8270D
Pyrene	EPA 8270C
	EPA 8270D

**Priority Pollutant Phenols**

2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270C
	EPA 8270D
2,4-Dichlorophenol	EPA 8270C
	EPA 8270D
2,4-Dimethylphenol	EPA 8270C
	EPA 8270D
2,4-Dinitrophenol	EPA 8270C
	EPA 8270D
2-Chlorophenol	EPA 8270C
	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270C
	EPA 8270D
2-Methylphenol	EPA 8270C
	EPA 8270D

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**Priority Pollutant Phenols**

2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270C
	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270C
	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270C
	EPA 8270D
Pentachlorophenol	EPA 8270C
	EPA 8270D
Phenol	EPA 8270C
	EPA 8270D

**Volatile Aromatics**

1,4-Dichlorobenzene	EPA 8260B
2-Chlorotoluene	EPA 8260B
4-Chlorotoluene	EPA 8260B
Benzene	EPA 8260B
Bromobenzene	EPA 8260B
Chlorobenzene	EPA 8260B
Ethyl benzene	EPA 8260B
Isopropylbenzene	EPA 8260B
Naphthalene, Volatile	EPA 8260B
n-Butylbenzene	EPA 8260B
n-Propylbenzene	EPA 8260B
p-Isopropyltoluene (P-Cymene)	EPA 8260B
sec-Butylbenzene	EPA 8260B
Styrene	EPA 8260B
tert-Butylbenzene	EPA 8260B
Toluene	EPA 8260B
Total Xylenes	EPA 8260B

**Semi-Volatile Organics**

1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Benzyl alcohol	EPA 8270D
Dibenzofuran	EPA 8270D

**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 8260B
1,1,1-Trichloroethane	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 8260B
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260B
1,1,2-Trichloroethane	EPA 8260B
1,1-Dichloroethane	EPA 8260B
1,1-Dichloroethene	EPA 8260B

**Volatile Aromatics**

1,2,4-Trichlorobenzene, Volatile	EPA 8260B
1,2,4-Trimethylbenzene	EPA 8260B
1,2-Dichlorobenzene	EPA 8260B
1,3,5-Trimethylbenzene	EPA 8260B
1,3-Dichlorobenzene	EPA 8260B

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
All approved analytes are listed below:*

**Volatile Halocarbons**

1,1-Dichloropropene	EPA 8260B
1,2,3-Trichloropropane	EPA 8260B
1,2-Dibromoethane	EPA 8260B
1,2-Dichloroethane	EPA 8260B
1,2-Dichloropropane	EPA 8260B
1,3-Dichloropropane	EPA 8260B
2,2-Dichloropropane	EPA 8260B
2-Chloroethylvinyl ether	EPA 8260B
Bromochloromethane	EPA 8260B
Bromodichloromethane	EPA 8260B
Bromoform	EPA 8260B
Bromomethane	EPA 8260B
Carbon tetrachloride	EPA 8260B
Chloroethane	EPA 8260B
Chloroform	EPA 8260B
Chloromethane	EPA 8260B
cis-1,2-Dichloroethene	EPA 8260B
cis-1,3-Dichloropropene	EPA 8260B
Dibromochloromethane	EPA 8260B
Dibromomethane	EPA 8260B
Dichlorodifluoromethane	EPA 8260B
Hexachlorobutadiene, Volatile	EPA 8260B
Methylene chloride	EPA 8260B
Tetrachloroethene	EPA 8260B
trans-1,2-Dichloroethene	EPA 8260B
trans-1,3-Dichloropropene	EPA 8260B

**Volatile Halocarbons**

Trichloroethene	EPA 8260B
Trichlorofluoromethane	EPA 8260B
Vinyl chloride	EPA 8260B

**Volatile Organics**

2-Butanone (Methylethyl ketone)	EPA 8260B
2-Hexanone	EPA 8260B
4-Methyl-2-Pentanone	EPA 8260B
Acetone	EPA 8260B
Carbon Disulfide	EPA 8260B
Cyclohexane	EPA 8260B
Methyl tert-butyl ether	EPA 8260B

**Sample Preparation Methods**

EPA 3005A
EPA 3010A
EPA 3031
EPA 3040A
EPA 3050B
EPA 3060A
EPA 3545
EPA 3550B
EPA 3580
EPA 3585
EPA 5035A-H
EPA 5035A-L

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ENVIRONMENTAL ANALYSES AIR AND EMISSIONS  
All approved analytes are listed below:*

**Chlorinated Hydrocarbons**

1,2,4-Trichlorobenzene	EPA TO-14A
	EPA TO-15
Hexachlorobutadiene	EPA TO-14A
	EPA TO-15
Hexachloroethane	EPA TO-14A
	EPA TO-15

**Polychlorinated Biphenyls**

PCB-1016	EPA TO-10A
	NIOSH 5503
PCB-1221	EPA TO-10A
	NIOSH 5503
PCB-1232	EPA TO-10A
	NIOSH 5503
PCB-1242	EPA TO-10A
	NIOSH 5503
PCB-1248	EPA TO-10A
	NIOSH 5503
PCB-1254	EPA TO-10A
	NIOSH 5503
PCB-1260	EPA TO-10A
	NIOSH 5503

**Purgeable Aromatics**

1,2,4-Trimethylbenzene	EPA TO-14A
	EPA TO-15
1,2-Dichlorobenzene	EPA TO-14A

**Purgeable Aromatics**

1,2-Dichlorobenzene	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-14A
	EPA TO-15
1,3-Dichlorobenzene	EPA TO-14A
	EPA TO-15
1,4-Dichlorobenzene	EPA TO-14A
	EPA TO-15
Benzene	EPA TO-14A
	EPA TO-15
Chlorobenzene	EPA TO-14A
	EPA TO-15
Ethyl benzene	EPA TO-14A
	EPA TO-15
Isopropylbenzene	EPA TO-15
Styrene	EPA TO-14A
	EPA TO-15
Toluene	EPA TO-14A
	EPA TO-15
Total Xylenes	EPA TO-14A
	EPA TO-15

**Purgeable Halocarbons**

1,1,1-Trichloroethane	EPA TO-14A
	EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-14A
	EPA TO-15

**Serial No.: 48423**

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All approved analytes are listed below:*

**Purgeable Halocarbons**

1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-14A
	EPA TO-15
1,1,2-Trichloroethane	EPA TO-14A
	EPA TO-15
1,1-Dichloroethane	EPA TO-14A
	EPA TO-15
1,1-Dichloroethene	EPA TO-14A
	EPA TO-15
1,2-Dichloroethane	EPA TO-14A
	EPA TO-15
1,2-Dichloropropane	EPA TO-14A
	EPA TO-15
Bromodichloromethane	EPA TO-14A
	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-14A
	EPA TO-15
Carbon tetrachloride	EPA TO-14A
	EPA TO-15
Chloroethane	EPA TO-14A
	EPA TO-15
Chloroform	EPA TO-14A
	EPA TO-15
Chloromethane	EPA TO-14A
	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-14A

**Purgeable Halocarbons**

cis-1,2-Dichloroethene	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-14A
	EPA TO-15
Dichlorodifluoromethane	EPA TO-14A
	EPA TO-15
Methylene chloride	EPA TO-14A
	EPA TO-15
Tetrachloroethene	EPA TO-14A
	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-14A
	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-14A
	EPA TO-15
Trichloroethene	EPA TO-14A
	EPA TO-15
Trichlorofluoromethane	EPA TO-14A
	EPA TO-15
Vinyl bromide	EPA TO-15
Vinyl chloride	EPA TO-14A
	EPA TO-15

**Volatile Chlorinated Organics**

Benzyl chloride	EPA TO-15
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**Volatile Organics**

1,2-Dichlorotetrafluoroethane	EPA TO-14A
	EPA TO-15

Serial No.: 48423

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