
REMEDIAL INVESTIGATION REPORT

**111 LEROY STREET
NEW YORK, NEW YORK**

**E-DESIGNATION NO. E-211
CEQR NO. 07-DCP-095M
OER PROJECT NO. 16RH-A105M**

Prepared For:

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LANGAN

**January 6, 2016
170370001**

REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
AGV	Air Guideline Value
AOC	Area of Concern
ASP	Analytical Services Protocol
DER	Division of Environmental Remediation
EM	Electromagnetic
eV	Electron Volt
GPR	Ground-Penetrating Radar
HAZWOPER	Hazardous Waste Operations and Emergency Response
NYC OER	New York City Office of Environmental Remediation
NYCRR	New York Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH ELAP	New York State Department of Health Environmental Laboratory Approval Program
OSHA	Occupational Safety and Health Administration
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PCE	Tetrachloroethene
PID	Photoionization Detector
QA/QC	Quality Assurance/Quality Control
QEP	Qualified Environmental Professional
RAP	Remedial Action Plan
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SGVs	Standards and Guidance Values
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TCE	Trichloroethene
TCL	Target Compound List
TOGS	Technical and Operational Guidance Series
USEPA	United States Environmental Protection Agency
USGS	United State Geological Survey
VOC	Volatile Organic Compound

CERTIFICATION

I, Michael Burke, 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 111 Leroy Street site (OER Project Number not yet assigned). 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.

Michael D. Burke, CHMM

1/6/2016



Qualified Environmental Professional

Date

Signature

EXECUTIVE SUMMARY

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

Site Location and Current Usage

The site is located in the West Village neighborhood of Manhattan and is identified as Lots 55, 83, and 85 of Block 602. The site is irregularly-shaped and is bound by Morton Street and Lot 56 (six-story mixed residential and commercial building), Lot 58 (13-story industrial building), and Lot 64 (three-story mixed residential and commercial building) to the north, Lot 68 (nine-story commercial building) to the east, Leroy Street to the south, and Greenwich Street to the west. The Hudson River lies about 850 feet west of the site. The site encompasses an area of about 18,080 square feet. The elevation of the site ranges from about el. 19 feet (NAVD88¹) in the east-central portion of the site to about el. 15 feet in the southwestern portion of Lot 85.

The current use of the site is summarized below, by tax lot:

- Lot 55: One-story vacant slab-on-grade building at 623 Greenwich Street;
- Lot 83: Asphalt-paved open-air parking lot with several vehicle lifts at 617 Greenwich Street, 119-123 Leroy Street, and 80 Morton Street; and
- Lot 85: Two-story vacant slab-on-grade building at 111-113 Leroy Street.

Summary of Proposed Redevelopment Plan

The new development project is in preliminary design and is anticipated to consist of a new 10-story residential tower and five 4-to-5-story residential townhouses (designated Townhouses 1 through 5 from west to east), each with a cellar. Townhouses 1, 2, and 3 will either have a cellar or a sunken courtyard with terrace that extend to the property line; Townhouse 4 and 5 also have sunken courtyards with terraces but will be offset 4 feet from the property line. The

¹ National Vertical Datum of 1988. Datum refers to the National Vertical Datum of 1988 (NAVD88) which is approximately 1.1 feet above mean sea level datum at Sandy Hook New Jersey as defined by the United States Geologic Survey (USGS NGVD 1929).

tower will have a rear yard, positioned at grade level with no underlying cellar space. The tower and townhouse cellars are anticipated to be used for tenant parking and storage, amenities, including a pool, and mechanical equipment and building services. Residential units will be located on the first to tenth floors. Additional mechanical equipment will be housed within the tower bulkhead. Each building is anticipated to include an outdoor terrace on the roof and courtyard space at and/or below current grade level. The north section of the site, accessible to Morton Street and between adjacent Lots 58 and 64, will be utilized for at-grade parking as part of the proposed redevelopment. The tax lots comprising the site are expected to be redrawn, subdivided, or merged as part of development; new lot numbers will be provided in the Remedial Action Work Plan.

The new development will require the demolition of the two existing buildings and excavation of portions of the site to at least 11 feet below existing grade to accommodate the tower cellar and at least 6 feet below existing grade for the townhouse cellars. Locally deeper excavation may be required to accommodate the chosen foundation systems. The volume of site soil anticipated for excavation during the proposed development is about 3,800 cubic yards (about 5,700 tons). Site-wide dewatering is not anticipated during foundation construction.

The current zoning designation of the site is M1-5 manufacturing with an R7X overlay. M1-5 districts are typified by light industrial usage including woodworking, repair, and wholesale service and storage facilities, and R7X districts are occupied by tall residential buildings with interior amenities for residents. The proposed use is consistent with existing zoning for the site.

Summary of Past Uses of Site and Areas of Concern

A review of historical Sanborn fire insurance maps, city directory information, and available public databases indicated the site was occupied since at least 1895 by residential, industrial, and commercial tenants. The site was historically used primarily for commercial and industrial purposes that included a cooper, an iron works, an "oils" store, an automobile repair shop, a welding shop, a motor freight station, a material handler and mercury manufacturer, and an express depot. Current improvements to Lots 55 and 83 were constructed between 1931 and 1947. Lot 85 has been used as an open-air parking lot since at least 1950. Ownership records

for the three lots comprising the site list multiple realty groups, corporations, and individual property owners.

The areas of concern (AOCs) identified for this site include:

1. Open Petroleum Spill and Underground Storage Tank (UST) on Lot 83: A petroleum spill (New York State of Environmental Conservation [NYSDEC] Spill No. 06-11866) is associated with a historical release to soil underneath the Leroy Street sidewalk adjacent to Lot 83. Part of a fuel oil fill line was removed and improperly reinstalled during the installation of a sidewalk electrical vault. The fill line was assumed to be associated with the active 1,500-gallon #2 fuel oil UST on Lot 83. During a subsequent fuel delivery on January 26, 2007, fuel oil was released into the backfilled vault excavation. About 2 cubic yards of petroleum-impacted soil were removed during the remediation of the spill. The contractor could not gain access to the tank in order to perform required post-remediation tightness testing; as such, the spill remains open. Although available records indicate that the spill was remediated, residual impacts from this open spill may have adversely impacted soil, groundwater, and/or soil vapor at the site.
2. Suspected UST on Lot 85: The April 2014 Phase I ESA identified a fill port and vent pipe within the northern portion of Lot 85, about 10 feet south of the Morton Street sidewalk. A test pit excavation performed as part of the 2014 geotechnical investigation uncovered the southern end of this suspected UST. Site reconnaissance during the RI confirmed the existence of the fill port and vent pipe, and identified a possible abandoned fill port within the Morton Street sidewalk. The asphalt surface cover in Lot 85 surrounding the fill port and vent pipe shows evidence of patching. Potential releases from a suspected UST within Lot 85 may have adversely impacted soil, groundwater, and/or soil vapor at the site.
3. Historical Use: Previous uses of the site include: welding and manufacturing (Lot 55); mercury manufacturing and automobile service and parts sales (Lot 83); and an iron works, an "oils" store, an express depot, and a motor freight station (Lot 85). Potential leaks, spills, and/or releases of petroleum, solvents, or other hazardous substances

typically used by these facilities may have adversely impacted soil, groundwater, and/or soil vapor at the site.

4. Historic Fill: Previous environmental investigations identified a surficial layer of historic fill overlying native soil. The historic fill layer extended to depths of up to about 14 feet below grade surface (bgs). Concentrations of semivolatile organic compounds (SVOCs) (all polyaromatic hydrocarbons [PAHs]), and metals (including lead and zinc) were identified in historic fill during the 2005 Site Investigation at concentrations that exceeded applicable New York State standards at the time of the investigation. The concentrations of PAHs and metals were attributed to historic fill and are characteristic of properties in the urban environment.

Summary of the Work Performed under the Remedial Investigation

Langan performed the following scope of work on behalf of the Owner:

1. Conducted a site inspection and geophysical survey to identify physical obstructions and subsurface utilities and structures;
2. Advanced 10 soil borings and collected 21 grab soil samples (plus quality assurance/quality control [QA/QC] samples) for laboratory analysis to evaluate soil quality;
3. Installed four permanent groundwater monitoring wells to establish groundwater depth and collected four groundwater samples (plus QA/QC samples).
4. Installed five soil vapor probes and collected one ambient air and five soil vapor samples for laboratory analysis to evaluate soil vapor quality.

Summary of Environmental Findings

1. The elevation of the site ranges from about el. 19 feet in the east-central portion of the site to about el. 15 feet in the southwestern portion of Lot 85. Surface grade on the site generally slopes from east to west.
2. Depth to groundwater is between 17 and 20 feet bgs, based on gauging of four groundwater monitoring wells. Based on groundwater gauging results and site

topography, the estimated direction of groundwater flow is to the southwest in the direction of the Hudson River.

3. The stratigraphy of the site consists of a surficial layer of historic fill material extending from the asphalt or concrete ground cover to depths of between 14 and 23 feet bgs and comprising varying amounts of sand, silt, gravel, brick, wood, concrete, asphalt, rock fragments, and mica. The historic fill overlies native reddish-brown to brown, fine- to coarse-grained sandy and silty native soil with trace clay, gravel, and mica. Bedrock was not observed during the RI.
4. Twenty-two soil samples were collected and analyzed during the RI. Soil/fill sample results were compared to Title 6 New York Codes, Rules, and Regulations (NYCRR) Part 375-6.8 Unrestricted Use and Restricted Use Restricted-Residential Soil Cleanup Objectives (SCOs). One volatile organic compound (VOC), acetone, exceeded its Unrestricted Use SCO at a concentration of 0.2 milligrams per kilogram (mg/kg). Concentrations of five SVOCs exceeded their Restricted-Residential SCOs in multiple soil samples, including benzo(a)anthracene (max of 2.01 mg/kg), benzo(a)pyrene (max of 1.08 mg/kg), benzo(b)fluoranthene (max of 1.15 mg/kg), dibenzo(a,h)anthracene (max of 0.344 mg/kg), and indeno(1,2,3-cd)pyrene (max of 0.854 mg/kg). The concentration of total polychlorinated biphenyls (PCBs) did not exceed its Unrestricted Use SCO of 0.1 mg/kg in any soil samples collected during the RI. Concentrations of two pesticides exceeded their Unrestricted Use SCOs in one or more soil samples, including 4,4'-DDE (max of 0.00412 mg/kg) and 4,4'-DDT (max of 0.0219 mg/kg). No herbicides were detected in soil samples. Concentrations of eight metals exceeded their Unrestricted Use SCOs, with three metals also exceeding their Restricted-Residential Use SCOs including barium (max of 967 mg/kg), lead (max of 1,390 mg/kg), and nickel (max of 354 mg/kg). Overall, soil chemistry is unremarkable and is similar to sites with shallow historic fill in New York City.
5. Five groundwater samples were collected and analyzed during the RI. Groundwater analytical results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs) Class GA (drinking water) groundwater. No pesticides, PCBs,

or herbicides were detected in groundwater samples. Two chlorinated VOCs, tetrachloroethene (PCE) and trichloroethene (TCE), exceeded their TOGS SGVs in multiple groundwater samples at maximum respective concentrations of 33 micrograms per liter ($\mu\text{g/L}$) and 13 $\mu\text{g/L}$. One SVOC, chrysene, exceeded its TOGS SGV at a concentration of 0.94 $\mu\text{g/L}$ in one groundwater sample. Seven metals, including beryllium (max of 3.18 $\mu\text{g/L}$), chromium (max of 128 $\mu\text{g/L}$), lead (max of 633 $\mu\text{g/L}$), magnesium (max of 134,000 $\mu\text{g/L}$), manganese (max of 11,600 $\mu\text{g/L}$), nickel (max of 248 $\mu\text{g/L}$), and sodium (max of 473,000 $\mu\text{g/L}$) were detected at total concentrations exceeding their TOGS SGVs in one or more unfiltered samples. Magnesium, manganese, and sodium were also detected at concentrations exceeding their TOGS SGV in one or more filtered groundwater samples. The metals detected above their TOGS SGVs in filtered samples are characteristic of brackish and naturally-occurring groundwater conditions.

6. Five soil vapor samples were collected and analyzed during the RI. Soil vapor analytical results were compared to the Air Guideline Values (AGVs) published in the New York State Department of Health (NYSDOH) *Final Guidance for Evaluating Soil Vapor Intrusion* dated October 2006. Petroleum related compounds benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected at a maximum concentration of 168 $\mu\text{g/m}^3$. Three chlorinated VOCs, methylene chloride (max of 69 micrograms per cubic meter [$\mu\text{g/m}^3$]), PCE (ranging from 45 $\mu\text{g/m}^3$ to 150 $\mu\text{g/m}^3$), and TCE (ranging from 86 $\mu\text{g/m}^3$ to 460 $\mu\text{g/m}^3$) were detected at concentrations above their respective NYSDOH AGVs. Concentrations of chlorinated VOCs in site soil vapor are likely related to observed concentrations in site groundwater.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

Langan Engineering, Environmental, Survey and Landscape Architecture, D.P.C. was retained by PMG Leroy Street LLC (the Owner) to complete a Remedial Investigation (RI) for the development of an about 0.42-acre site located at 111-113 and 119-123 Leroy Street, 617 and 623 Greenwich Street, and 80 Morton Street (the site). The site will be developed under the regulatory oversight of the New York City Office of Environmental Remediation (OER) pursuant to an air quality E-Designation (E-211 [effective July 23, 2008]) for the entire site and a hazardous materials testing restrictive declaration (RD) for Lot 85. The E-designation and RD were assigned by the New York City Department of City Planning (NYCDCP) in response to a Negative Declaration for the Hudson Square North Rezoning (CEQR No. 07-DCP-095M). Residential use is proposed for the site.

The RI work was performed between October 12 and 20, 2015. This Remedial Investigation 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 in the West Village neighborhood of Manhattan and is identified as Lots 55, 83, and 85 of Block 602. The site is irregularly-shaped and is bound by Morton Street and Lot 56 (six-story mixed residential and commercial building), Lot 58 (13-story industrial building), and Lot 64 (three-story mixed residential and commercial building) to the north, Lot 68 (nine-story commercial building) to the east, Leroy Street to the south, and Greenwich Street to the west. The Hudson River lies about 850 feet west of the site. The site encompasses an area of

about 18,080 square feet. The elevation of the site ranges from about el. 19 feet (NAVD88²) in the east-central portion of the site to about el. 15 feet in the southwestern portion of Lot 85.

A site location map is presented as Figure 1. A site plan is presented as Figure 2. The current use of the site is summarized below, by tax lot:

- Lot 55: One-story vacant slab-on-grade building at 623 Greenwich Street;
- Lot 83: Asphalt-paved open-air parking lot with several vehicle lifts at 617 Greenwich Street, 119-123 Leroy Street, and 80 Morton Street; and
- Lot 85: Two-story vacant slab-on-grade building at 111-113 Leroy Street.

1.2 Proposed Redevelopment Plan

The new development project is in preliminary design and is anticipated to consist of a new 10-story residential tower and five 4-to-5-story residential townhouses (designated Townhouses 1 through 5 from west to east), each with a cellar. Townhouses 1, 2, and 3 will either have a cellar or a sunken courtyard with terrace that extend to the property line; Townhouse 4 and 5 also have sunken courtyards with terraces but will be offset 4 feet from the property line. The tower will have a rear yard, positioned at grade level with no underlying cellar space. The tower and townhouse cellars are anticipated to be used for tenant parking and storage, amenities, including a pool, and mechanical equipment and building services. Residential units will be located on the first to tenth floors. Additional mechanical equipment will be housed within the tower bulkhead. Each building is anticipated to include an outdoor terrace on the roof and courtyard space at and/or below current grade level. The north section of the site, accessible to Morton Street and between adjacent Lots 58 and 64, will be utilized for at-grade parking as part of the proposed redevelopment. The tax lots comprising the site are expected to be redrawn, subdivided, or merged as part of development; new lot numbers will be provided in the Remedial Action Work Plan.

The new development will require the demolition of the two existing buildings and excavation of portions of the site to at least 11 feet below existing grade to accommodate the tower cellar

² National Vertical Datum of 1988. Datum refers to the National Vertical Datum of 1988 (NAVD88) which is approximately 1.1 feet above mean sea level datum at Sandy Hook New Jersey as defined by the United States Geologic Survey (USGS NGVD 1929).

and at least 6 feet below existing grade for the townhouse cellars. Locally deeper excavation may be required to accommodate the chosen foundation systems. The volume of site soil anticipated for excavation during the proposed development is about 3,800 cubic yards (about 5,700 tons). Site-wide dewatering is not anticipated during foundation construction.

The current zoning designation of the site is M1-5 manufacturing with an R7X overlay. M1-5 districts are typified by light industrial usage including woodworking, repair, and wholesale service and storage facilities, and R7X districts are occupied by tall residential buildings with interior amenities for residents. The proposed use is consistent with existing zoning for the site. Preliminary development plans and draft support-of-excavation plans are included as Appendix A.

1.3 Description of Surrounding Property

DIRECTION	ADJOINING PROPERTIES	SURROUNDING PROPERTIES
North	Three- and six-story mixed residential and commercial buildings, a 13-story industrial building, and Morton Street	A vacant seven-story institutional building, a four-story industrial building, and a vacant open lot followed by Barrow Street
East	A nine-story commercial building	Hudson Street followed by multiple-story residential and mixed residential and commercial buildings
South	Leroy Street	Multiple-story industrial, commercial, and mixed residential and commercial buildings followed by Clarkson Street
West	Greenwich Street	Multiple-story commercial and residential buildings followed by Washington Street

There are no sensitive receptors within 500 feet of the site.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

A review of historical Sanborn fire insurance maps, city directory information, and available public databases indicated the site was occupied since at least 1895 by residential, industrial, and commercial tenants. The site was historically used primarily for commercial and industrial purposes, including a cooper, an iron works, an “oils” store, a parking lot, automobile repair, a welding shop, a motor freight station, a material handler and mercury manufacturer, and an express depot. Current improvements to Lots 55 and 83 were constructed between 1931 and 1947, and Lot 85 has been used as an open-air parking lot since at least 1950. Ownership records for the three lots comprising the site list multiple realty groups, corporations, and individual property owners.

2.2 Previous Investigations

Langan reviewed four previous environmental reports. Copies of these reports are included in Appendix B.

Site Investigation Report (SIR) (August 2005)

ATC Associates, Inc. performed an environmental site investigation of Lot 83 in July 2005. The objective of the environmental investigation was to supplement the findings from a previously-completed ATC Phase I ESA Report and to evaluate subsurface conditions.

The field investigation involved the installation of five soil borings (including four borings on western adjoining Lot 85) and the collection and analysis of five soil samples and one groundwater sample from a pre-existing groundwater monitoring well.

The following is a summary of the findings based on ATC's *Site Investigation Report*, dated August 11, 2005:

- The stratigraphy underlying the subject property included a surficial layer of historic fill overlying native silt, sand, and gravel. The historic fill layer extended to a depth of about 12 feet below grade surface (bgs).

- A slight petroleum-like odor, staining, and photoionization detector (PID) readings up to 46 parts per million (ppm) were noted from about 18.5 to 20 feet bgs in soil boring B-5, on Lot 85.
- No volatile organic compounds (VOCs) exceeded their New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum #4046 Recommended Soil Cleanup Objectives (TAGM RSCOs) in soil samples. Tetrachloroethene (PCE) was detected below its TAGM RSCO at a concentration of 73.2 micrograms per kilogram ($\mu\text{g}/\text{kg}$) in soil sample B-2 (19.5 to 20 feet bgs) on Lot 85 and several petroleum-related VOCs were detected below their respective TAGM RSCOs in soil sample B-5 (18.5 to 19 feet bgs).
- Five semivolatile organic compounds (SVOCs), all polycyclic aromatic hydrocarbons (PAHs), exceeded their TAGM RSCOs in soil sample B-4 (10.5-11 feet bgs).
- Three metals, including lead, nickel, and zinc, exceeded their Unrestricted Use SCOs in all soil samples.
- Four chlorinated VOCs, including PCE and trichloroethylene (TCE), were detected in the groundwater sample collected from monitoring well MW-1 above their respective Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs) for Class GA waters. MW-1 was located south of and adjacent to Lot 83 on the Leroy Street sidewalk.
- No SVOCs or metals were detected above their respective TOGS SGVs in groundwater samples.

Sampling locations from the ATC *Site Investigation Report* are shown on Figure 3.

Phase I Environmental Site Assessment (April 2014)

Hydro Tech Environmental, Corp. (Hydro Tech) completed a Phase I Environmental Site Assessment (ESA) of the site in April 2014. Hydro Tech did not access the building interiors during their site reconnaissance. The Phase I ESA identified the following Recognized Environmental Conditions (RECs):

- The likely presence of unknown fill material;

- Historical use of the site for automobile repair, welding, and manufacturing;
- The presence of an E-designation (E-211) for Air Quality;
- The presence of an active NYSDEC Spill case (Spill No. 06-11866);
- The presence of underground storage tanks (USTs) on Lots 83 and 85, including a registered active 1,500-gallon No. 2 fuel oil tank (NYSDEC Petroleum Bulk Storage [PBS] Site No. 2-608656) at Lot 83 and a fill port and vent pipe observed within the northern portion of Lot 85; and
- The presence of monitoring wells on the sidewalks adjacent to Lot 83 (Greenwich Street) and Lot 85 (Leroy Street).

Hydro Tech noted that the presence of a closed NYSDEC leaking tank (LTANK) incident (NYSDEC Spill No. 03-00861) at the site constituted a controlled REC (CREC).

A copy of the Phase I ESA report, dated April 17, 2014, is included in Appendix B as part of the environmental document review described below.

Environmental Document Review (April 2014)

EBI Consulting (EBI) completed an Environmental Document Review of the Hydro Tech Phase I ESA in April 2014. As part of the document review, dated April 23, 2014, EBI restated the findings and conclusions of the Hydro Tech Phase I ESA and noted the following changes:

- EBI considered the closed LTANK incident (NYSDEC Spill No. 03-00861) on Lot 83 to be a historical REC (HREC), not a CREC as indicated by Hydro Tech. EBI noted that the LTANK incident had been granted regulatory closure with no further action required;
- EBI further described the Air Quality E-designation and the hazardous materials and archaeological requirements included in the Negative Declaration for CEQR No. 07-DCP-095M. EBI noted that redevelopment of the site would require a subsurface investigation including a soil, groundwater, and soil gas sampling program with archaeological oversight; and
- EBI noted that the Hydro Tech Phase I ESA text included an observation of lead-based paint (LBP) as a REC; however, EBI noted that Hydro Tech did not include the LBP REC

in their conclusions section, and that LBP is outside of the scope of ASTM 1527-13 and would be considered a non-scope condition.

EBI recommended the following:

- Further subsurface investigation including a geophysical survey;
- Decommissioning of the active UST on Lot 83;
- Consultation with NYSDEC for closure of Spill No. 06-11866 and evaluation of the two observed monitoring wells adjacent to the site;
- Consultation with NYCOER for compliance with E-designation requirements; and
- Proper characterization, handling, and disposal of any asbestos-containing materials (ACM) or LBP to be disturbed during potential demolition.

Geotechnical Report (October 2015)

Mueser Rutledge Consulting Engineers (MRCE) performed a geotechnical investigation of Lots 83 and 85 in 2006. The objective of the geotechnical investigation was to evaluate subsurface conditions and address geotechnical and foundation issues related to a proposed development. The report was revised in 2015 to reflect a change in development plans and additional geotechnical work, including a boring and six test pits, completed in 2014.

The complete field investigation involved the advancement of seven soil borings to a minimum of 60 feet bgs, installation of two groundwater observation piezometers, excavation of six exploratory test pits, and gauging of the two piezometers and a pre-existing environmental groundwater monitoring well. The following is a summary of the findings based on MRCE's *Geotechnical Report*, dated October 28, 2015:

- The stratigraphy underlying the subject property included a surficial layer of historic fill overlying native material and bedrock. The historic fill layer extended to depths of between 12 and 17 feet bgs.
- Native material consisted of two separate layers of glacial till and embedded layers of fine sand and silt. Bedrock was encountered at depths between 60 and 80 feet bgs.
- Test pit TP-3 was completed in the northern portion of Lot 83, about 15 feet south of the Morton Street sidewalk. The test pit was discontinued when an apparent fuel oil

tank was exposed at about 4 feet bgs and about 4 feet east of the adjacent Lot 58 property line.

- Piezometer readings taken between 2006 and 2015 noted groundwater between about el. -6 feet (between about 21 and 25 feet bgs) and about el. -3 feet (between about 18 and 22 feet bgs).

2.3 Site Inspection

To assist in an assessment of site history and observe current conditions, a site inspection was performed at 6:30 AM on October 12, 2015 by Rebecca Tisherman of Langan under the direction of the Qualified Environmental Professional (QEP) certifying this report. The weather at the time of the inspections was sunny and approximately 60° F. The following observations were noted during the inspections:

- The buildings on Lots 55 and 83 were vacant.
- Lot 85 was occupied by a commercial parking company. Several automobile lifts and a metal parking-attendants shack were present in the lot.
- One groundwater monitoring well was observed in the Greenwich Street sidewalk, adjacent to Lot 85.
- One groundwater monitoring well was observed in the Leroy Street sidewalk, adjacent to Lot 83.
- Asphalt patching, a vent pipe, and a fill port were observed in the northern portion of Lot 85, about ten feet south of the Morton Street sidewalk. A possible abandoned fill port was observed within the Morton Street sidewalk, adjacent to Lot 85.
- Concrete patching, a vent pipe, and an about 2-feet by 2-feet manhole for a suspected UST were observed in the southern portion of Lot 83, adjacent to the Leroy Street sidewalk.
- An about 6-feet by 10-feet possible hydraulic lift was observed in the central portion of Lot 83.

2.4 Areas of Concern

Based on site reconnaissance and review of prior investigations and assessments, the AOCs identified for this site include:

1. Open Petroleum Spill and UST on Lot 83: A petroleum spill (NYSDEC Spill No. 06-11866) is associated with a historical release to soil underneath the Leroy Street sidewalk adjacent to Lot 83. Part of a fuel oil fill line was removed and improperly reinstalled during the installation of a sidewalk electrical vault. The fill line was assumed to be associated with the active 1,500-gallon #2 fuel oil UST on Lot 83. During a subsequent fuel delivery on January 26, 2007, fuel oil was released into the backfilled vault excavation. About 2 cubic yards of petroleum-impacted soil were removed during the remediation of the spill. The contractor could not gain access to the tank in order to perform required post-remediation tightness testing; as such, the spill remains open. Although available records indicate that the spill was remediated, residual impacts from this open spill may have adversely impacted soil, groundwater, and/or soil vapor at the site.
2. Suspected UST on Lot 85: The April 2014 Phase I ESA identified a fill port and vent pipe within the northern portion of Lot 85, about 10 feet south of the Morton Street sidewalk. A test pit excavation performed as part of the 2014 geotechnical investigation uncovered the southern end of this suspected UST. Site reconnaissance during the RI confirmed the existence of the fill port and vent pipe, and identified a possible abandoned fill port within the Morton Street sidewalk. The asphalt surface cover in Lot 85 surrounding the fill port and vent pipe shows evidence of patching. Potential releases from a suspected UST within Lot 85 may have adversely impacted soil, groundwater, and/or soil vapor at the site.
3. Historical Use: Previous uses of the site include: welding and manufacturing (Lot 55); mercury manufacturing and automobile service and parts sales (Lot 83); and an iron works, an "oils" store, an express depot, and a motor freight station (Lot 85). Potential leaks, spills, and/or releases of petroleum, solvents, or other hazardous substances typically used by these facilities may have adversely impacted soil, groundwater, and/or soil vapor at the site.

-
4. Historic Fill: Previous environmental investigations identified a surficial layer of historic fill overlying native soil. The historic fill layer extended to depths of up to about 14 feet bgs. Concentrations of SVOCs (all PAHs), and metals (including lead and zinc) were identified in historic fill during the 2005 Site Investigation at concentrations that exceeded applicable New York State standards at the time of the investigation. The concentrations of PAHs and metals were attributed to historic fill and are characteristic of properties in the urban environment.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The QEP responsible for the implementation and oversight of the remedial investigation and preparation of this RIR is Michael D. Burke, CHMM.

3.2 Health and Safety

All work described in this RIR was performed in compliance with applicable laws and regulations, including site and Occupational Safety and Health Administration (OSHA) worker safety requirements and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements.

3.3 Materials Management

All material encountered during the RI was managed in accordance with applicable laws and regulations. Drill cuttings, except for grossly-contaminated soil, were returned to the boreholes from which they were generated. Grossly-contaminated soil and excess purge water generated during the RI were containerized in two separate DOT-approved, 55-gallon steel drums and stored on site pending off-site disposal.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Langan performed the following scope of work on behalf of the Owner:

1. Conducted a site inspection and geophysical survey to identify physical obstructions and subsurface utilities and structures;
2. Advanced 10 soil borings and collected 21 grab soil samples (plus quality assurance/quality control [QA/QC] samples) for laboratory analysis to evaluate soil quality;
3. Installed four permanent groundwater monitoring wells to estimate groundwater depth and collected four groundwater samples (plus QA/QC samples); and
4. Installed five soil vapor probes and collected one ambient air and five soil vapor samples for laboratory analysis to evaluate soil vapor quality.

4.1 Geophysical Investigation

Prior to commencement of ground-intrusive investigation, the New York City One-Call center was contacted to identify subsurface utility services entering the site. On October 12, 2015, NOVA Geophysical & Environmental, Inc. of Douglaston, New York, conducted a geophysical survey.

NOVA utilized ground-penetrating radar (GPR) and an electromagnetic (EM) detector to locate and identify buried utilities or other subsurface structures at the site. The geophysical survey identified anomalies consistent with USTs within Lots 83 and 85 in the areas of the two suspected USTs described in AOCs 1 and 2. Borings were relocated as necessary to avoid subsurface utilities and anomalies. A copy of the geophysical survey report is included in Appendix C.

4.2 Soil Investigation

Drilling Procedures

10 soil borings (SB01 through SB10) were installed by AARCO Environmental Services Corp of Lindenhurst, New York on October 12 and 13, 2015. Soil borings were documented by a Langan field engineer. The soil boring locations are presented on Figures 3 and 4.

Soil borings were completed using a Geoprobe™ 7822DT direct-push drill rig. Soil samples were collected continuously into 2-inch diameter Macro-Core barrels lined with 4-foot dedicated acetate sleeves. Extracted soil was screened with a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp, inspected for visual and olfactory evidence of contamination, and classified by Langan field staff. Soil borings were advanced to depths of between 20 and 24 feet bgs. Soil boring logs are included as Appendix D.

Soil Observations

The stratigraphy consists of a surficial layer of historic fill material extending from the asphalt or concrete ground cover to depths of between 14 and 23 feet bgs and comprising varying amounts of sand, silt, gravel, brick, wood, concrete, asphalt, rock fragments, and mica. The historic fill overlies native reddish-brown to brown, fine- to coarse-grained sandy and silty native soil with trace clay, gravel, and mica. Bedrock was not observed during the RI.

Visual, olfactory, and PID evidence of petroleum contamination was identified in soil borings SB01 and SB10. Staining, odor, and PID readings up to 8.3 ppm were noted between 19 and 20 feet bgs in SB01; in SB10, staining, odor, and PID readings up to 33 ppm were noted between 12 and 14 feet bgs and between 16 and 17 feet bgs.

4.3 Groundwater Investigation

Permanent Monitoring Well Construction

Four permanent monitoring wells, MW01 through MW04, were installed by AARCO under the supervision of a Langan field engineer on October 12 and 13, 2015. The wells were installed with a Geoprobe® 7822DT direct-push drill rig. The monitoring wells were constructed with 10 feet of 2-inch Schedule 40 PVC pipe with 0.020-inch slotted well screen across the groundwater interface and a No. 2 silica sand filter from the bottom of the well annulus to 1 foot above the top of the screen. An annular seal of hydrated bentonite was installed in each well from the top of the filter pack to the bottom of the manhole cover. The completed monitoring wells were fitted with locking well caps and flush-mounted manhole covers. The

monitoring wells were developed with a submersible pump and dedicated polyethylene tubing³. The groundwater level in each well repeatedly drew down during development; pumping was repeated for several cycles with recharge time allowed between each cycle. The monitoring well locations are presented on Figures 3 and 5. Well construction logs are included in Appendix E.

Groundwater Observations

Groundwater was observed between about 17 feet and 20 feet bgs based on gauging of monitoring wells MW01 through MW04. Based on groundwater gauging results (summarized below) and site topography, the expected direction of groundwater flow is to the southwest in the direction of the Hudson River.

	Well ID			
	MW01	MW02	MW03	MW04
Approximate Grade Surface Elevation	18.00	18.80	15.50	15.80
Approximate Top of Casing Depth (feet bgs)	0.50	0.50	0.50	0.50
Depth to Water (feet below Top of Casing): 10/14/2015	18.85	19.94	16.92	17.38
Depth to Water (feet below Top of Casing): 10/20/2015	18.85	19.91	16.98	17.58
Approximate Groundwater Elevation	-1.3	-1.6	-2.0	-2.2

No free product was observed during sampling and gauging activities, except in monitoring well MW01. Globules of possible light non-aqueous phase liquid (LNAPL) were noted on groundwater developed from MW01 on October 14, 2015. The possible LNAPL thickness was not measurable upon gauging the well with an electronic oil/water interface probe. A PID reading above site background (17.5 ppm) was recorded beneath the inner well cap of monitoring well MW01 prior to sampling on October 20, 2015.

³ The MW04 well riser was curved and the well could not be developed. MW04 was purged prior to sampling in accordance with NYSDEC DER-10 and USEPA's *Low Flow Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells*.

4.4 Soil Vapor Investigation

Five temporary soil vapor sampling points (SV01 through SV05) were installed by AARCO under the supervision of a Langan field engineer on October 12 and 13, 2015. One ambient air sample was collected and analyzed for QA/QC purposes.

The soil vapor sampling points were installed using a Geoprobe® 7822DT direct-push drill rig and were completed to either 6 inches below concrete surface cover (SV02 and SV04) or about 6 feet below asphalt surface cover (SV01, SV03, and SV05). The sample collection points consisted of 6-inch stainless steel screened-probes and inert 3/16-inch by 1/4-inch Teflon-lined polyethylene tubing. The annulus (i.e., the sampling zone) around each probe was filled with No. 2 pure silica sand to between 6 and 18 inches above the top of the probe screen. A hydrated bentonite seal was installed above the sampling zone up to the impermeable grade surface at all locations. After sample collection, the vapor points were removed from each location and the ground surface restored with grout. Soil vapor sampling locations are presented on Figures 3 and 6.

4.5 Sample Collection and Chemical Analysis

Soil, groundwater and soil vapor samples were collected to evaluate environmental conditions related to the AOCs and to evaluate soil, groundwater, and soil vapor quality. Discrete (grab) samples were used for delineation of the nature and extent of contamination and to determine the potential 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

Two discrete (grab) soil samples were collected at each boring for laboratory analysis except at SB10, where an third sample of petroleum-impacted soil was collected. A total of 21 soil samples (plus QA/QC samples) were collected during the RI. At each boring location, one soil sample was collected from the 0 to 2 foot interval below surface cover and one soil sample was collected at the groundwater interface.

Visual, olfactory, and PID evidence of petroleum contamination was identified in soil borings SB01 and SB10. Grossly-impacted soil was containerized in one properly-labeled 55-gallon steel drum and stored on-site pending off-site disposal. Terra Core™ kits (5-gram) were used to collect soil samples for VOC analysis. One field duplicate sample, one field blank sample, and two trip blanks were collected and analyzed for QA/QC purposes. A summary of the soil samples and soil QA/QC samples is presented in Table 1.

Soil samples and QA/QC samples were collected into laboratory-supplied batch-certified clean glassware and submitted to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory (York Analytical Laboratories, Inc. of Stratford, CT [ELAP ID #10854]) via courier service under standard chain-of-custody protocol. Soil samples, field duplicates, and field blanks were analyzed for the following parameters:

- Target Compound List (TCL) VOCs by USEPA Method 8260
- TCL SVOCs by USEPA Method 8270
- TCL Pesticides/PCBs by USEPA Method 8081/8082
- TCL Herbicides by USEPA Method 8151
- Target Analyte List (TAL) metals by USEPA Method 6010 and 7471
- Total Cyanide by USEPA Method 9010/9012
- Hexavalent Chromium by USEPA Method 7196
- Trivalent Chromium by calculation

The trip blanks were analyzed for VOCs by USEPA Method 8260C. The laboratory was instructed to report all analytical data as an Analytical Services Protocol (ASP) Category A data deliverable. The reported list of soil results was inclusive of all parameters listed in the TCL/TAL standard list and 6 NYCRR Part 375-6.8 and most parameters listed in the NYSDEC Commissioner's Policy CP-51.

Groundwater Sampling

One groundwater sample was collected from each of the four monitoring wells, in general accordance with NYSDEC DER-10 and USEPA's *Low Flow Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells*. Four groundwater samples

(plus QA/QC samples) were collected during the RI. The groundwater samples were collected at least one week after the monitoring wells were installed, using submersible (MW01 through MW03) and peristaltic pumps (MW04) connected to dedicated polyethylene tubing. Before groundwater sample collection, the wells were gauged and then continuously purged until groundwater quality parameters (pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential) stabilized, to the extent practical, in accordance with the USEPA Low Flow Procedures. Stabilization was achieved when three consecutive readings of all parameters, to the extent practical, were within the limits specified in the USEPA Low Flow Procedures. A multi-parameter water quality system (Horiba U-52) was used to monitor the groundwater quality parameters during purging.

Purged groundwater was containerized in one properly-labeled 55-gallon steel drum and stored on-site pending off-site disposal. In addition to the groundwater samples, one field duplicate sample, one field blank sample, and a trip blank were collected and analyzed for QA/QC purposes. A summary of the groundwater samples and groundwater QA/QC samples is presented in Table 2. Well sampling logs are included in Appendix F.

Groundwater samples and QA/QC samples were collected into laboratory-supplied batch-certified clean glassware and submitted to York via courier service under standard chain-of-custody protocol. Groundwater samples, field duplicates, and field blanks were analyzed for the following analytes:

- TCL VOCs by USEPA Method 8260
- TCL SVOCs by USEPA Method 8270
- TCL Pesticides/PCBs by USEPA Method 8081/8082
- TCL Herbicides by USEPA Method 8151
- TAL metals (total and dissolved) by USEPA Methods 6020 and 7470
- Total Cyanide by USEPA Method 9010/9012
- Hexavalent Chromium by USEPA Method 7196
- Trivalent Chromium by calculation

Trip blanks were analyzed for VOCs by USEPA Method 8260C. The laboratory was instructed to report all analytical data as an ASP Category A data deliverable. The reported list of groundwater results was inclusive of all parameters listed in the TCL/TAL standard list.

Soil Vapor Sampling

Samples were collected in general accordance with the *Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH October 2006). Soil vapor samples were collected from each temporary collection point on October 12 and 13, 2015, for a total of five soil vapor samples and one ambient air sample. A minimum of three implant volumes (i.e., the volume of the sample probe and tubing) was purged from each sample port at a rate of approximately 0.15 liters per minute using a RAE Systems MultiRAE 3000® multi-gas detector. The purged soil vapor was monitored for VOCs with the multi-gas detector during purging. A helium tracer gas was used, in accordance with the NYSDOH protocols, to serve as a QA/QC technique to verify the integrity of each soil vapor sampling point seal before and after sampling was initiated. A plastic 5-gallon bucket and hydrated bentonite were used to keep the helium tracer gas in contact with the probe during the seal integrity test. A helium monitoring instrument was used to analyze a sample of soil vapor for the tracer gas prior to sampling. All soil vapor sampling point seals were determined to be adequate before and after sampling was initiated.

Soil vapor samples were collected into laboratory-supplied batch-certified clean 6-liter Summa® canisters with calibrated flow controllers. Soil vapor and ambient air samples were collected over two hours. A log sheet for each soil vapor sample was completed to record the following:

- Sample identification name;
- Date and time of sample collection;
- Sampling depth;
- Name of the field engineer responsible for sampling;
- Sampling methods and equipment;
- Soil vapor purge volumes;
- Volume of soil vapor extracted;
- Flow rate; and

- Vacuum of canisters before and after sample collection.

A summary of the soil vapor and ambient air samples is presented in Table 3. Soil vapor sampling logs are provided as Appendix G.

Soil vapor and ambient air samples were submitted to York via courier service under standard chain-of-custody protocol and analyzed for VOCs by USEPA Method TO-15. The laboratory was instructed to report all analytical data as an ASP Category A equivalent data deliverable.

Chemical Analysis

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

Factor	Description
Analytical Laboratory	The analytical laboratory used during the RI was York Analytical Laboratories, Inc., an NYSDOH ELAP-certified laboratory (ELAP ID #10854).
Analytical Methods	<p>Soil analytical methods:</p> <ul style="list-style-type: none"> • TCL VOCs by USEPA Method 8260 • TCL SVOCs by USEPA Method 8270 • TCL Pesticides/PCBs by USEPA Method 8081/8082 • TCL Herbicides by USEPA Method 8151 • TAL metals by USEPA Method 6010 and 7471 • Total Cyanide by USEPA Method 9010/9012 • Hexavalent Chromium by USEPA Method 7196 • Trivalent Chromium by calculation <p>Groundwater analytical methods:</p> <ul style="list-style-type: none"> • TCL VOCs by USEPA Method 8260 • TCL SVOCs by USEPA Method 8270 • TCL Pesticides/PCBs by USEPA Method 8081/8082 • TCL Herbicides by USEPA Method 8151 • TAL metals (total and dissolved) by USEPA Methods 6020 and 7470 • Total Cyanide by USEPA Method 9010/9012 • Hexavalent Chromium by USEPA Method 7196 • Trivalent Chromium by calculation <p>Soil vapor analytical methods:</p> <ul style="list-style-type: none"> • VOCs by USEPA TO-15

5.0 ENVIRONMENTAL EVALUATIONS

5.1 Regional Geological and Hydrogeological Conditions

According to USGS maps and historic topographic maps, New York City geology is generally characterized by layers of fill and native soil overburden underlain by metamorphic bedrock. The native overburden generally consists of till and outwash deposits predominantly in inland areas, and riverine deposits (peat, organic silt and clay) along the shorelines that were filled in with anthropogenic materials. Three formations of metamorphic rock, the Manhattan Schist, the Inwood Marble, and the Fordham Gneiss, are present across New York City.

The “Bedrock and Engineering Geologic Maps of New York County and Parts of Kings and Queens Counties, New York and Parts of Bergen County, New Jersey” by Charles A. Baskerville, et al. indicates that the prominent rock type beneath the site is the Hartland Formation, containing fine- to coarse-grained, gray to tan-weathering, quartz-feldspathic, and muscovite-biotite-garnet schist.

Beneath the ground surface, water (groundwater) is contained within the subsurface strata and fractured bedrock. The upper surface of the groundwater reservoir is marked by the water table surface, which fluctuates seasonally, in response to precipitation events and tides (along shorelines). The overburden deposits typical to the project area can have low to moderate hydraulic conductivities. The bedrock is relatively impermeable except where concentrations of fractures, faults or joints are present. Preferential flow occurs through the more permeable zones of the overburden, such as individual sand or gravel layers, and through bedrock fractures and joints. Groundwater flow in an urban setting can be interrupted by the presence of pumping stations, building foundations, utilities, retaining walls, or other buried structures. Based on site/area topography, the regional groundwater flow within the overburden material is anticipated to be to the west in the direction of the Hudson River.

Site Stratigraphy

The stratigraphy consists of a surficial layer of historic fill material extending from the asphalt or concrete ground cover to depths of between 14 and 23 feet bgs and comprising varying amounts of sand, silt, gravel, brick, wood, concrete, asphalt, rock fragments, and mica. The historic fill overlies reddish-brown to brown, fine- to coarse-grained sandy and silty native soil

with trace clay, gravel, and mica. Bedrock was not observed during the RI. Soil boring logs are included in Appendix D.

Hydrogeology

Groundwater was observed between about 17 feet and 20 feet bgs based on gauging of monitoring wells MW01 through MW04. The expected direction of groundwater flow is to the southwest in the direction of the Hudson River.

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. 22 soil samples, including one duplicate sample, were collected and analyzed for VOCs, SVOCs, PCBs, pesticides, herbicides, and metals during the RI. Soil samples are compared to NYSDEC Title 6 of the New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use (UU) Soil Cleanup Objectives (SCOs) and Restricted-Residential Use (RR) SCOs. Complete laboratory analytical reports are included in Appendix H. Contaminant concentrations exceeding the two SCOs are indicated in Table 4, depicted on Figure 4, and summarized below.

VOCs – One VOC, acetone, exceeded its Unrestricted Use SCO in SB-10_12-14 at a concentration of 0.2 milligrams per kilogram (mg/kg). Acetone, which is a common laboratory contaminant, was also detected in the trip blank sample (SOTB02_101315) submitted with soil sample SB-10_12-14, and was detected in the laboratory analysis batch blank. The blank detections indicate this acetone detection is not representative of site conditions.

SVOCs - Concentrations of five SVOCs exceeded their Restricted-Residential SCOs in one or more soil samples. The concentration ranges of each PAH exceeding its Restricted-Residential SCO are provided below:

- Benzo(a)anthracene – 1.01 mg/kg (SB03_0-2) to 2.01 mg/kg (SB05_0-2) (RR SCO = 1 mg/kg)
- Benzo(a)pyrene – 1.08 mg/kg (SB05_0-2) (RR SCO = 1 mg/kg)
- Benzo(b)fluoranthene – 1.15 mg/kg (SB05_0-2) (RR SCO = 1 mg/kg)
- Dibenzo(a,h)anthracene – 0.344 mg/kg (SB05_0-2) (RR SCO = 0.33 mg/kg)

- Indeno(1,2,3-cd)pyrene – 0.854 mg/kg (SB05_0-2) (RR SCO = 0.5 mg/kg)

Soil samples with SVOC concentrations exceeding their Unrestricted Use and Restricted-Residential Use SCOs were collected from shallow historic fill, which typically exhibits elevated concentrations of SVOCs. The SVOCs exceeding their Restricted-Residential SCOs were PAHs, a class of compounds typically associated with pyrogenic and petrogenic artifacts (e.g., coal, slag, and ash).

PCBs – No total PCB concentrations (max of 0.1 mg/kg) exceeded their Unrestricted Use SCO of 0.1 mg/kg in soil samples collected during the RI.

Pesticides – Concentrations of 4,4'-DDE (max of 0.00412 mg/kg) and 4,4'-DDT (max of 0.0219 mg/kg) exceeded their Unrestricted Use SCOs in one or more soil samples collected from borings SB01, SB03, SB05, and SB08. No pesticides exceeded their Restricted-Residential SCOs. Soil samples with pesticide concentrations exceeding their Unrestricted Use SCOs were collected from historic fill, which commonly exhibits elevated pesticide concentrations.

Herbicides – No herbicides were detected above their respective reporting limits.

Metals - Concentrations of eight metals exceeded their Unrestricted Use SCOs in one or more soil samples. Three metals also exceeded their Restricted-Residential SCOs in one or more soil samples. The concentration range of each metal exceeding its Restricted-Residential SCO is provided below:

- Barium – 747 mg/kg (SB08_16-18) to 967 mg/kg (SB03_0-2) (RR SCO = 400 mg/kg)
- Lead – 870 mg/kg (SB06_0-2) to 1,390 mg/kg (SB10_0-2) (RR SCO = 400 mg/kg)
- Nickel – 205 mg/kg (SB10_12-14) to 354 mg/kg (SB01_18-20) (RR SCO = 310 mg/kg)

Soil samples with metals concentrations exceeding their Unrestricted Use and Restricted-Residential SCOs except for sample SB01_18-20 were collected from historic fill, which typically contains elevated metals concentrations. Soil sample SB01_18-20 was collected from native soil and contained an anomalous concentration of nickel above its Restricted-Residential SCO.

5.3 Groundwater Chemistry

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the site. Five groundwater samples (including a duplicate) were analyzed for VOCs, SVOCs, PCBs, pesticides, herbicides, total metals, and dissolved metals. Samples were collected from four permanent monitoring wells installed during the RI. Groundwater analytical results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs) Class GA (drinking water) groundwater; results are summarized in Table 5, and detected concentrations exceeding the SGVs are shown on Figure 5 and summarized below.

Spill #15-07406 – In response to the observation of globules or droplets of what appeared to be a petroleum product (e.g., fuel oil) in MW01, the NYSDEC was notified and Spill #15-07406 was assigned. Prior to sampling MW01, measurable LNAPL was not documented. The groundwater analytical results revealed no target compounds above concentrations exceeding their TOGS SGVs. Aside from the presence of droplets or globules of product, the spill appears to have not impacted groundwater quality. It is anticipated that upon removal of the UST adjacent to MW01 and associated petroleum-impacted soil, the Spill #15-07406 will be closed.

VOCs – Two chlorinated VOCs were detected at concentrations exceeding their TOGS SGVs in one or more groundwater samples. The maximum concentration or concentration range (where appropriate) of each VOC exceeding its TOGS SGV is provided below:

- PCE – 6.7 micrograms per liter [$\mu\text{g/L}$] (MW04_102015) to 33 $\mu\text{g/L}$ (MW03_102015) (TOGS SGV = 5 $\mu\text{g/L}$)
- TCE – 13 $\mu\text{g/L}$ (MW03_102015) (TOGS SGV = 5 $\mu\text{g/L}$)

PCE and TCE were detected in all groundwater samples collected during the RI, were previously detected in a groundwater sample collected from a monitoring well on the adjacent Leroy Street sidewalk during the 2005 Site Investigation. There were no PCE or TCE detections in the soil borings associated with MW02, MW03 or MW04. The detections of PCE or TCE in soil borings SB05, SB09, and SB10 were at concentrations one to two orders of magnitude lower than the Unrestricted Use SCO. As such, no specific on-site source of chlorinated solvents was identified.

SVOCs – One SVOC, chrysene, was detected at a concentration of 0.094 µg/L in groundwater sample MW04_102015, exceeding its TOGS SGV of 0.002 µg/L. Chrysene is a PAH commonly detected in historic fill, and was detected in multiple soil samples collected from historic fill during the RI. The detected concentration of chrysene above its TOGS SGV in monitoring well MW04 is likely due to entrained sediment in the groundwater sample or impacts from the adjacent spill.

PCBs – No PCBs were detected in the groundwater samples.

Pesticides – No pesticides were detected in the groundwater samples.

Herbicides – No herbicides were detected in the groundwater samples.

Metals – Seven metals, including beryllium (max of 3.18 µg/L), chromium (max of 128 µg/L), lead (max of 633 µg/L), magnesium (max of 134,000 µg/L), manganese (max of 11,600 µg/L), nickel (max of 248 µg/L), and sodium (max of 473,000 µg/L) were detected at total concentrations exceeding their TOGS SGVs in one or more unfiltered samples. Three metals, including magnesium (max of 122,000 µg/L), manganese (max of 8,750 µg/L), and sodium (max of 411,000 µg/L) were detected at dissolved concentrations exceeding their TOGS SGVs in one or more filtered samples.

A comparison of the filtered and unfiltered metals detected in groundwater indicated a significant difference in concentrations of beryllium, chromium, lead, and nickel, which were detected at higher concentrations in the unfiltered samples and may be indicative of entrained sediment. Hexavalent chromium, lead, and nickel were also detected in soil samples at concentrations above Unrestricted Use SCOs during the RI.

The metals (magnesium, manganese, and sodium) detected in filtered groundwater above their TOGS SGVs are characteristic of brackish and naturally-occurring groundwater conditions.

5.4 Soil Vapor Chemistry

The analytical data generated by the RI is sufficient to delineate the distribution of contaminants in soil vapor. Five soil vapor samples were collected during the RI. Soil vapor analytical results were compared to the Air Guideline Values (AGVs) published in the New York State Department of Health (NYSDOH) *Final Guidance for Evaluating Soil Vapor Intrusion* dated

October 2006. A summary of soil vapor analytical results is presented in Table 6 and Figure 6. A summary of the soil vapor analytical results is provided below:

- Methylene chloride was detected at a concentration of 69 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) [AGV = $60 \mu\text{g}/\text{m}^3$] in soil vapor sample SV01_101215.
- PCE was detected at concentrations between $45 \mu\text{g}/\text{m}^3$ (SV03_101315) and $150 \mu\text{g}/\text{m}^3$ (SV05_101315), which are above the AGV of $30 \mu\text{g}/\text{m}^3$.
- Trichloroethene (TCE) was detected at concentrations between $86 \mu\text{g}/\text{m}^3$ (SV04_101315) and $460 \mu\text{g}/\text{m}^3$ (SV05_101315), which are above the AGV of $2 \mu\text{g}/\text{m}^3$.
- Petroleum related compounds benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected at a maximum concentration of $168 \mu\text{g}/\text{m}^3$ in soil vapor sample SV01_101215.

PCE and TCE were also detected in groundwater, as described in Section 5.3. Detected concentrations of chlorinated VOCs above applicable regulatory standards in site groundwater and soil vapor have not been attributed to a specific on-site source.

5.5 Quality Control Samples

Duplicate soil and groundwater sample analytical results are included with their parent samples in Tables 4 and 5. The ambient air analytical results are shown with soil vapor analytical results in Table 6. A summary of soil and groundwater sample trip blank and field blank analytical results is provided in Table 7.

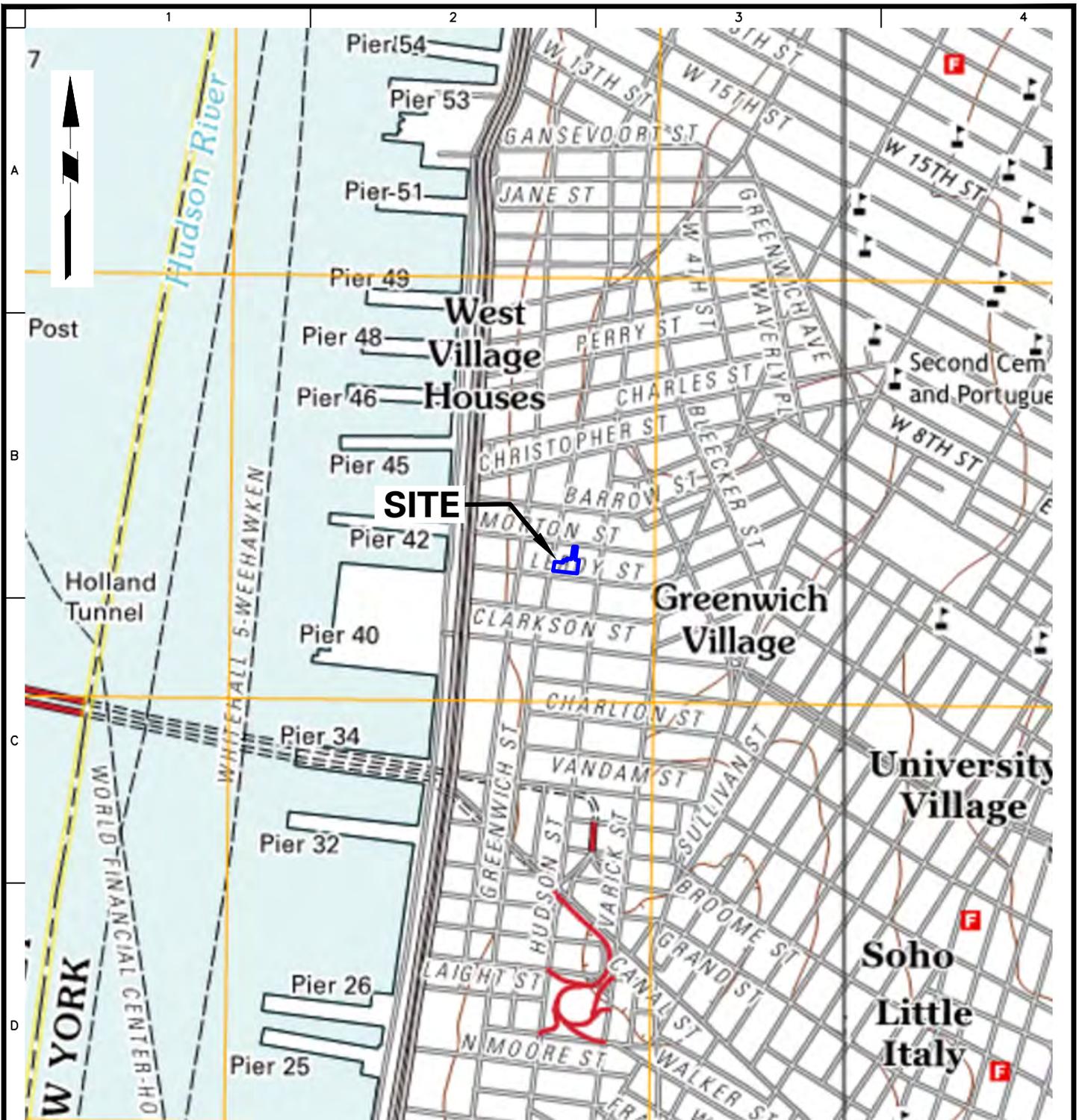
5.5 Prior Activity

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

5.6 Impediments to Remedial Action

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

FIGURES



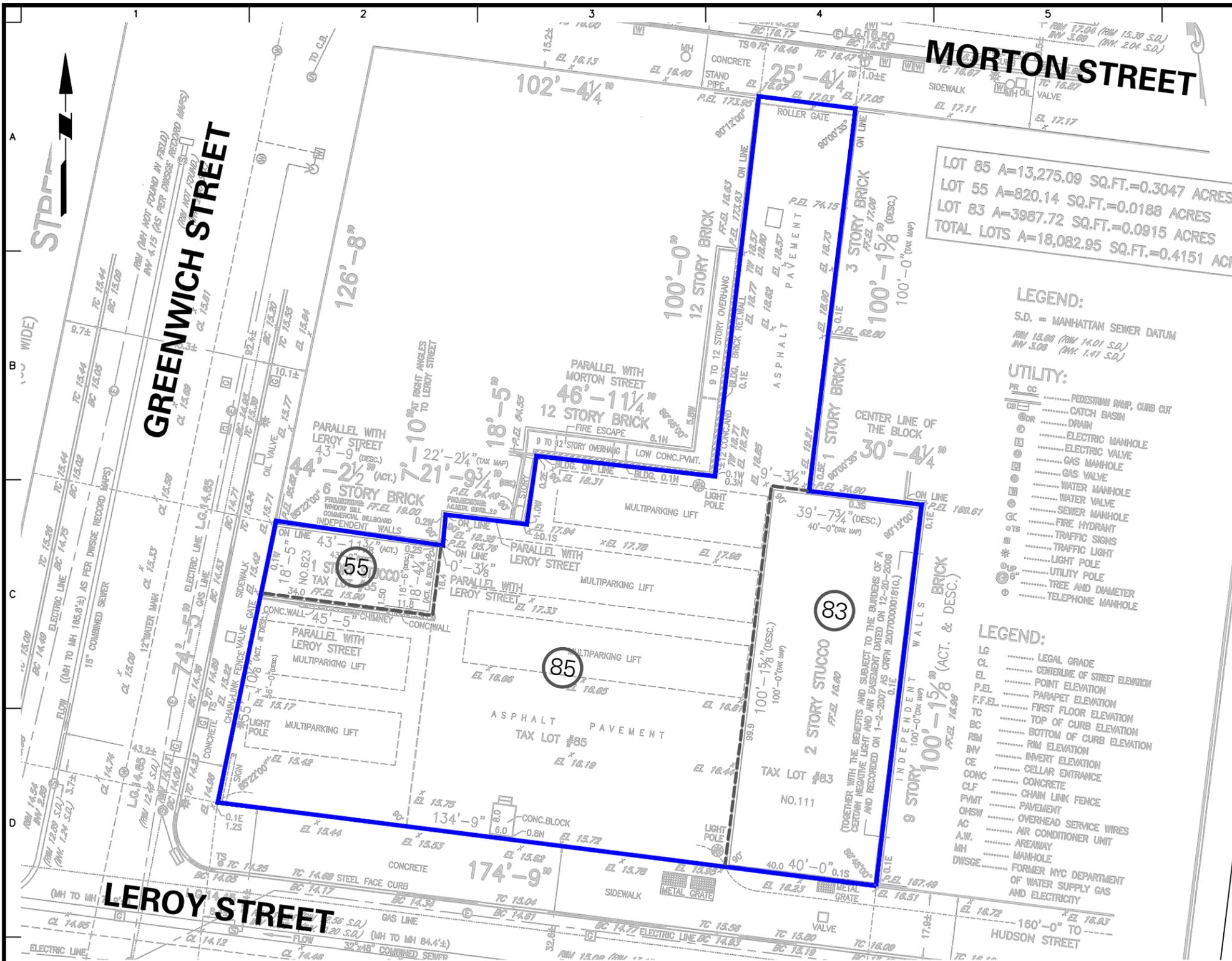
MAP REFERENCE: USGS 7.5-MINUTE JERSEY CITY, N.J., AND BROOKLYN, N.Y. TOPOGRAPHIC QUADRANGLES

LEGEND



SITE BOUNDARY

<p>21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p> <p>Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc. Langan CT, Inc. Langan International LLC Collectively known as Langan</p>	Project	Figure Title	Project No.	Figure
	111 LEROY STREET	SITE LOCATION MAP	170370001	1
	BLOCK No. 602, LOT Nos. 55, 83, and 85		Date	
	NEW YORK	NEW YORK	10/15/2015	Scale
			NTS	Drawn By
		PTF	Checked By	
			GN	Submission Date
				Sheet 1 of 6



LEGEND:

- SITE BOUNDARY
- TAX LOT BOUNDARY
- 85 TAX LOT NUMBER

- LEGEND:**
- S.D. = MANHATTAN SEWER DATUM
 FIN 15.08 (FIN 14.01 S.D.)
 INV 3.08 (INV. 1.41 S.D.)
- UTILITY:**
- PR CC PEDESTRIAN RAMP, CURB CUT
 - CB CATCH BASIN
 - DR DRAIN
 - EM ELECTRIC MANHOLE
 - EV ELECTRIC VALVE
 - GM GAS MANHOLE
 - GV GAS VALVE
 - WM WATER MANHOLE
 - WV WATER VALVE
 - SM SEWER MANHOLE
 - FS FIRE HYDRANT
 - TS TRAFFIC SIGNS
 - TL TRAFFIC LIGHT
 - UP UTILITY POLE
 - TD TREE AND DIAMETER
 - TM TELEPHONE MANHOLE

- LEGEND:**
- LG LEGAL GRADE
 - CL CENTERLINE OF STREET ELEVATION
 - PEL POINT ELEVATION
 - PA PARAPET ELEVATION
 - F.F.EL FIRST FLOOR ELEVATION
 - TC TOP OF CURB ELEVATION
 - BC BOTTOM OF CURB ELEVATION
 - RM RIM ELEVATION
 - INV INVERT ELEVATION
 - CE CELLAR ENTRANCE
 - CONC CONCRETE
 - CLF CHAIN LINK FENCE
 - PVMT PAVEMENT
 - OHSW OVERHEAD SERVICE WIRES
 - AC AIR CONDITIONER UNIT
 - A.W. AREAWAY
 - MH MANHOLE
 - DWSGE FORMER NYC DEPARTMENT OF WATER SUPPLY GAS AND ELECTRICITY

NOTES:

1. BASE MAP SOURCE: SURVEY BY JOSEPH NICOLETTI ASSOCIATES PROFESSIONAL LAND SURVEYORS, P.C. (JULY 29, 2014).
2. DATUM REFERS TO THE NATIONAL VERTICAL DATUM OF 1988 (NAVD88), WHICH IS APPROXIMATELY 1.1 FEET ABOVE MEAN SEA LEVEL DATUM AT SANDY HOOK, NEW JERSEY AS DEFINED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS NGVD 1929).

SCALE IN FEET

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Project

111 LEROY STREET

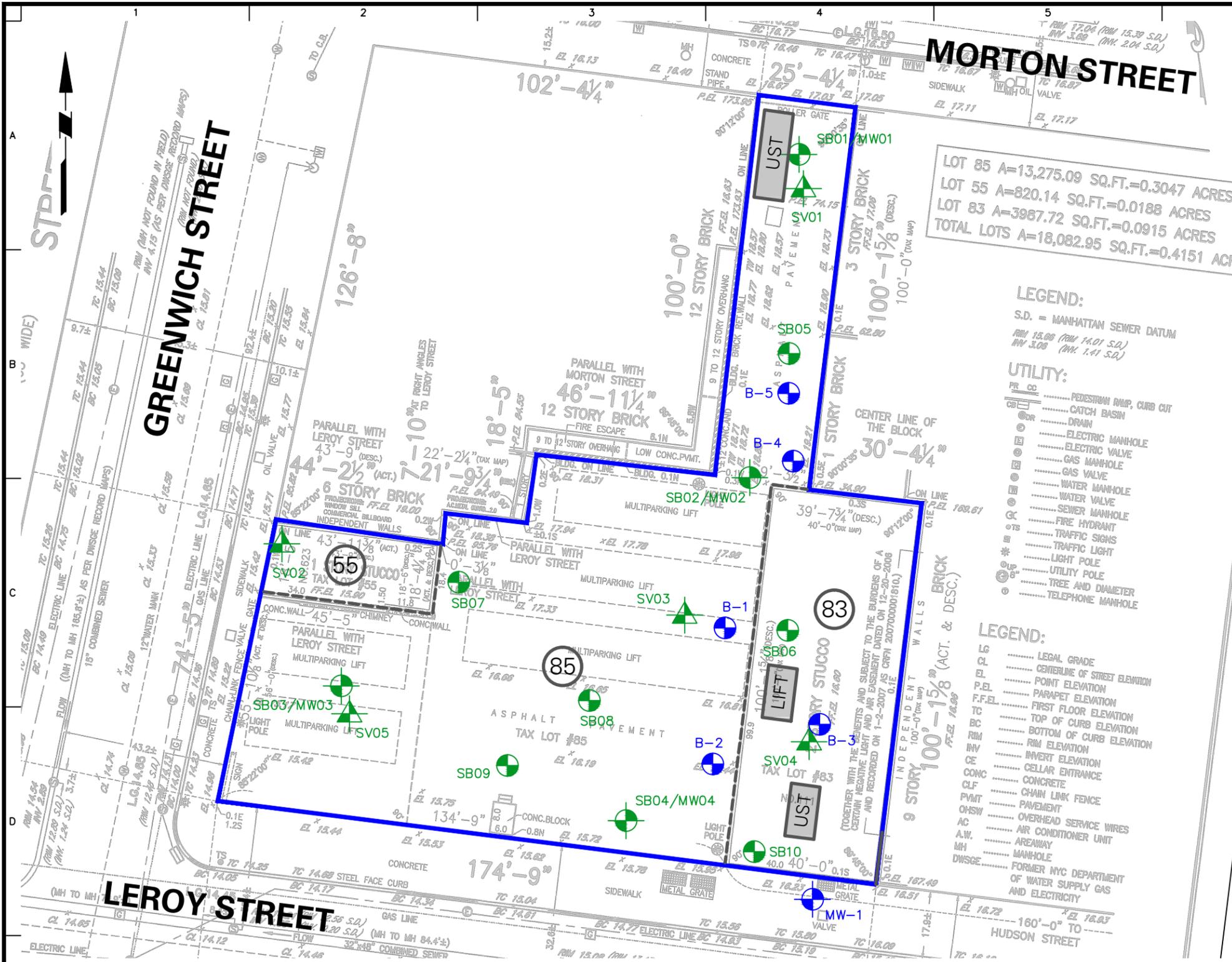
BLOCK No. 602, LOT Nos. 55, 83, and 85

NEW YORK NEW YORK

Figure Title

SITE PLAN

Project No. 170370001	Figure No.
Date 10/15/2015	2
Scale 1" = 30'	
Drawn By PTF	
Submission Date	Sheet 2 of 6

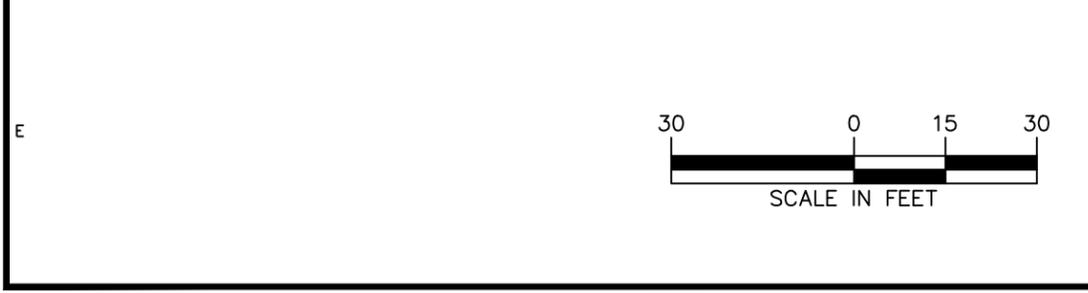


LEGEND:

- SITE BOUNDARY
- TAX LOT BOUNDARY
- 85 TAX LOT NUMBER
- B-3 ⊕ PREVIOUS SOIL BORING LOCATION AND ID (ATC)
- MW-1 ⊕ PREVIOUS GROUNDWATER SAMPLE LOCATION AND ID (ATC)
- SB03/MW03 ⊕ SOIL BORING AND MONITORING WELL LOCATION AND ID
- SB07 ⊕ SOIL BORING LOCATION AND ID
- SV05 ▲ SOIL VAPOR SAMPLING POINT LOCATION AND ID
- UST APPROXIMATE LOCATION OF SUSPECTED UNDERGROUND STORAGE TANK (UST)
- LIFT APPROXIMATE LOCATION OF SUSPECTED FORMER HYDRAULIC LIFT

NOTES:

1. BASE MAP SOURCE: SURVEY BY JOSEPH NICOLETTI ASSOCIATES PROFESSIONAL LAND SURVEYORS, P.C. (JULY 29, 2014).
2. PREVIOUS ATC ASSOCIATES, INC. (ATC) SAMPLING LOCATIONS WERE COMPLETED IN JULY 2005.
3. DATUM REFERS TO THE NATIONAL VERTICAL DATUM OF 1988 (NAVD88), WHICH IS APPROXIMATELY 1.1 FEET ABOVE MEAN SEA LEVEL DATUM AT SANDY HOOK, NEW JERSEY AS DEFINED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS NGVD 1929).

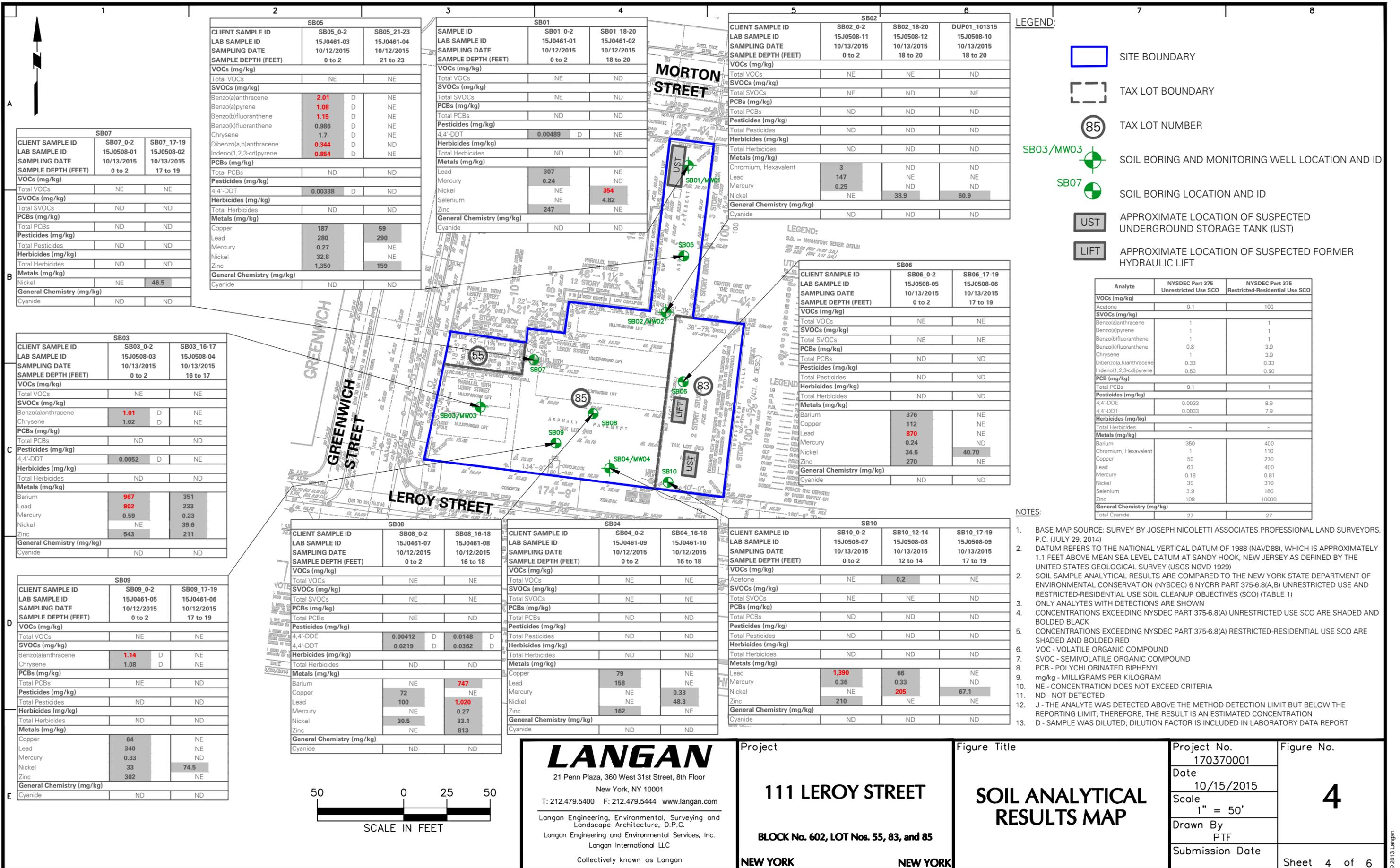


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Project
111 LEROY STREET
BLOCK No. 602, LOT Nos. 55, 83, and 85
NEW YORK NEW YORK

Figure Title
SAMPLE LOCATION PLAN

Project No. 170370001	Figure No.
Date 10/15/2015	3
Scale 1" = 30'	
Drawn By PTF	
Submission Date	Sheet 3 of 6



SB05			
CLIENT SAMPLE ID	SB05_0-2	SB05_21-23	
LAB SAMPLE ID	15J0461-03	15J0461-04	
SAMPLING DATE	10/12/2015	10/12/2015	
SAMPLE DEPTH (FEET)	0 to 2	21 to 23	
VOCs (mg/kg)			
Total VOCs	NE	NE	
SVOCs (mg/kg)			
Benzo(a)anthracene	2.01	D	NE
Benzo(a)pyrene	1.08	D	NE
Benzo(b)fluoranthene	1.15	D	NE
Benzo(k)fluoranthene	0.986	D	NE
Chrysene	1.7	D	NE
Dibenz(a,h)anthracene	0.344	D	ND
Indeno(1,2,3-cd)pyrene	0.854	D	NE
PCBs (mg/kg)			
Total PCBs	ND	ND	
Pesticides (mg/kg)			
4,4'-DDT	0.00338	D	ND
Herbicides (mg/kg)			
Total Herbicides	ND	ND	
Metals (mg/kg)			
Copper	187	59	
Lead	280	290	
Mercury	0.27	NE	
Nickel	32.8	NE	
Zinc	1,350	159	
General Chemistry (mg/kg)			
Cyanide	ND	ND	

SB01			
CLIENT SAMPLE ID	SB01_0-2	SB01_18-20	
LAB SAMPLE ID	15J0461-01	15J0461-02	
SAMPLING DATE	10/12/2015	10/12/2015	
SAMPLE DEPTH (FEET)	0 to 2	18 to 20	
VOCs (mg/kg)			
Total VOCs	NE	ND	
SVOCs (mg/kg)			
Total SVOCs	NE	ND	
PCBs (mg/kg)			
Total PCBs	ND	ND	
Pesticides (mg/kg)			
4,4'-DDT	0.00489	D	NE
Herbicides (mg/kg)			
Total Herbicides	ND	ND	
Metals (mg/kg)			
Lead	307	NE	
Mercury	0.24	NE	
Nickel	NE	354	
Selenium	NE	4.82	
Zinc	247	NE	
General Chemistry (mg/kg)			
Cyanide	ND	ND	

SB02			
CLIENT SAMPLE ID	SB02_0-2	SB02_18-20	DUP01_101315
LAB SAMPLE ID	15J0508-11	15J0508-12	15J0508-10
SAMPLING DATE	10/13/2015	10/13/2015	10/13/2015
SAMPLE DEPTH (FEET)	0 to 2	18 to 20	18 to 20
VOCs (mg/kg)			
Total VOCs	NE	NE	ND
SVOCs (mg/kg)			
Total SVOCs	NE	ND	NE
PCBs (mg/kg)			
Total PCBs	ND	ND	ND
Pesticides (mg/kg)			
Total Pesticides	ND	ND	ND
Herbicides (mg/kg)			
Total Herbicides	ND	ND	ND
Metals (mg/kg)			
Chromium, Hexavalent	3	ND	ND
Lead	147	NE	NE
Mercury	0.25	NE	ND
Nickel	NE	38.9	60.9
General Chemistry (mg/kg)			
Cyanide	ND	ND	ND

LEGEND:

- SITE BOUNDARY
- TAX LOT BOUNDARY
- 85 TAX LOT NUMBER
- SB03/MW03 SOIL BORING AND MONITORING WELL LOCATION AND ID
- SB07 SOIL BORING LOCATION AND ID
- UST APPROXIMATE LOCATION OF SUSPECTED UNDERGROUND STORAGE TANK (UST)
- LIFT APPROXIMATE LOCATION OF SUSPECTED FORMER HYDRAULIC LIFT

SB07			
CLIENT SAMPLE ID	SB07_0-2	SB07_17-19	
LAB SAMPLE ID	15J0508-01	15J0508-02	
SAMPLING DATE	10/13/2015	10/13/2015	
SAMPLE DEPTH (FEET)	0 to 2	17 to 19	
VOCs (mg/kg)			
Total VOCs	NE	NE	
SVOCs (mg/kg)			
Total SVOCs	ND	ND	
PCBs (mg/kg)			
Total PCBs	ND	ND	
Pesticides (mg/kg)			
Total Pesticides	ND	ND	
Herbicides (mg/kg)			
Total Herbicides	ND	ND	
Metals (mg/kg)			
Nickel	NE	46.5	
General Chemistry (mg/kg)			
Cyanide	ND	ND	

SB06			
CLIENT SAMPLE ID	SB06_0-2	SB06_17-19	
LAB SAMPLE ID	15J0508-05	15J0508-06	
SAMPLING DATE	10/13/2015	10/13/2015	
SAMPLE DEPTH (FEET)	0 to 2	17 to 19	
VOCs (mg/kg)			
Total VOCs	NE	NE	
SVOCs (mg/kg)			
Total SVOCs	NE	NE	
PCBs (mg/kg)			
Total PCBs	ND	ND	
Pesticides (mg/kg)			
Total Pesticides	ND	ND	
Herbicides (mg/kg)			
Total Herbicides	ND	ND	
Metals (mg/kg)			
Barium	376	NE	
Copper	112	NE	
Lead	870	NE	
Mercury	0.24	ND	
Nickel	34.6	NE	
Zinc	270	NE	
General Chemistry (mg/kg)			
Cyanide	ND	ND	

SB03			
CLIENT SAMPLE ID	SB03_0-2	SB03_16-17	
LAB SAMPLE ID	15J0508-03	15J0508-04	
SAMPLING DATE	10/13/2015	10/13/2015	
SAMPLE DEPTH (FEET)	0 to 2	16 to 17	
VOCs (mg/kg)			
Total VOCs	NE	NE	
SVOCs (mg/kg)			
Benzo(a)anthracene	1.01	D	NE
Chrysene	1.02	D	NE
PCBs (mg/kg)			
Total PCBs	ND	ND	
Pesticides (mg/kg)			
4,4'-DDT	0.0052	D	NE
Herbicides (mg/kg)			
Total Herbicides	ND	ND	
Metals (mg/kg)			
Barium	967	351	
Lead	902	233	
Mercury	0.59	0.23	
Nickel	NE	39.6	
Zinc	543	211	
General Chemistry (mg/kg)			
Cyanide	ND	ND	

Analyte	NYSDEC Part 375	
	Unrestricted Use SCO	Restricted-Residential Use SCO
VOCs (mg/kg)		
Acetone	0.1	100
SVOCs (mg/kg)		
Benzo(a)anthracene	1	1
Benzo(a)pyrene	1	1
Benzo(b)fluoranthene	1	1
Benzo(k)fluoranthene	0.8	3.9
Chrysene	1	3.9
Dibenz(a,h)anthracene	0.33	0.33
Indeno(1,2,3-cd)pyrene	0.50	0.50
PCB (mg/kg)		
Total PCBs	0.1	1
Pesticides (mg/kg)		
4,4'-DDE	0.0033	8.9
4,4'-DDT	0.0033	7.9
Herbicides (mg/kg)		
Total Herbicides	-	-
Metals (mg/kg)		
Barium	350	400
Chromium, Hexavalent	1	110
Copper	50	270
Lead	63	400
Mercury	0.18	0.81
Nickel	30	310
Selenium	3.9	180
Zinc	109	10000
General Chemistry (mg/kg)		
Total Cyanide	27	27

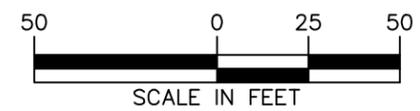
SB09			
CLIENT SAMPLE ID	SB09_0-2	SB09_17-19	
LAB SAMPLE ID	15J0461-05	15J0461-06	
SAMPLING DATE	10/12/2015	10/12/2015	
SAMPLE DEPTH (FEET)	0 to 2	17 to 19	
VOCs (mg/kg)			
Total VOCs	NE	NE	
SVOCs (mg/kg)			
Benzo(a)anthracene	1.14	D	NE
Chrysene	1.08	D	NE
PCBs (mg/kg)			
Total PCBs	NE	ND	
Pesticides (mg/kg)			
Total Pesticides	ND	ND	
Herbicides (mg/kg)			
Total Herbicides	ND	ND	
Metals (mg/kg)			
Copper	64	NE	
Lead	340	NE	
Mercury	0.33	ND	
Nickel	33	74.5	
Zinc	302	NE	
General Chemistry (mg/kg)			
Cyanide	ND	ND	

SB08			
CLIENT SAMPLE ID	SB08_0-2	SB08_16-18	
LAB SAMPLE ID	15J0461-07	15J0461-08	
SAMPLING DATE	10/12/2015	10/12/2015	
SAMPLE DEPTH (FEET)	0 to 2	16 to 18	
VOCs (mg/kg)			
Total VOCs	NE	NE	
SVOCs (mg/kg)			
Total SVOCs	NE	NE	
PCBs (mg/kg)			
Total PCBs	NE	ND	
Pesticides (mg/kg)			
4,4'-DDE	0.00412	D	0.0148 D
4,4'-DDT	0.0219	D	0.0362 D
Herbicides (mg/kg)			
Total Herbicides	ND	ND	
Metals (mg/kg)			
Barium	NE	747	
Copper	72	NE	
Lead	100	1,020	
Mercury	NE	0.27	
Nickel	30.5	33.1	
Zinc	NE	813	
General Chemistry (mg/kg)			
Cyanide	ND	ND	

SB04			
CLIENT SAMPLE ID	SB04_0-2	SB04_16-18	
LAB SAMPLE ID	15J0461-09	15J0461-10	
SAMPLING DATE	10/12/2015	10/12/2015	
SAMPLE DEPTH (FEET)	0 to 2	16 to 18	
VOCs (mg/kg)			
Total VOCs	NE	NE	
SVOCs (mg/kg)			
Total SVOCs	NE	NE	
PCBs (mg/kg)			
Total PCBs	ND	ND	
Pesticides (mg/kg)			
Total Pesticides	ND	ND	
Herbicides (mg/kg)			
Total Herbicides	ND	ND	
Metals (mg/kg)			
Copper	79	NE	
Lead	158	NE	
Mercury	NE	0.33	
Nickel	NE	48.3	
Zinc	162	NE	
General Chemistry (mg/kg)			
Cyanide	ND	ND	

SB10			
CLIENT SAMPLE ID	SB10_0-2	SB10_12-14	SB10_17-19
LAB SAMPLE ID	15J0508-07	15J0508-08	15J0508-09
SAMPLING DATE	10/13/2015	10/13/2015	10/13/2015
SAMPLE DEPTH (FEET)	0 to 2	12 to 14	17 to 19
VOCs (mg/kg)			
Acetone	NE	0.2	NE
SVOCs (mg/kg)			
Total SVOCs	NE	NE	ND
PCBs (mg/kg)			
Total PCBs	ND	ND	ND
Pesticides (mg/kg)			
Total Pesticides	ND	ND	ND
Herbicides (mg/kg)			
Total Herbicides	ND	ND	ND
Metals (mg/kg)			
Lead	1,390	66	NE
Mercury	0.36	0.33	ND
Nickel	NE	205	67.1
Zinc	210	NE	NE
General Chemistry (mg/kg)			
Cyanide	ND	ND	ND

- NOTES:**
- BASE MAP SOURCE: SURVEY BY JOSEPH NICOLETTI ASSOCIATES PROFESSIONAL LAND SURVEYORS, P.C. (JULY 29, 2014)
 - DATUM REFERS TO THE NATIONAL VERTICAL DATUM OF 1988 (NAVD88), WHICH IS APPROXIMATELY 1.1 FEET ABOVE MEAN SEA LEVEL DATUM AT SANDY HOOK, NEW JERSEY AS DEFINED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS NGVD 1929)
 - SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) 6 NYCRR PART 375-6.8(A,B) UNRESTRICTED USE AND RESTRICTED-RESIDENTIAL USE SOIL CLEANUP OBJECTIVES (SCO) (TABLE 1)
 - ONLY ANALYTES WITH DETECTIONS ARE SHOWN
 - CONCENTRATIONS EXCEEDING NYSDEC PART 375-6.8(A) UNRESTRICTED USE SCO ARE SHADDED AND BOLDED BLACK
 - CONCENTRATIONS EXCEEDING NYSDEC PART 375-6.8(A) RESTRICTED-RESIDENTIAL USE SCO ARE SHADDED AND BOLDED RED
 - VOC - VOLATILE ORGANIC COMPOUND
 - SVOC - SEMIVOLATILE ORGANIC COMPOUND
 - PCB - POLYCHLORINATED BIPHENYL
 - mg/kg - MILLIGRAMS PER KILOGRAM
 - NE - CONCENTRATION DOES NOT EXCEED CRITERIA
 - ND - NOT DETECTED
 - J - THE ANALYTE WAS DETECTED ABOVE THE METHOD DETECTION LIMIT BUT BELOW THE REPORTING LIMIT; THEREFORE, THE RESULT IS AN ESTIMATED CONCENTRATION
 - D - SAMPLE WAS DILUTED; DILUTION FACTOR IS INCLUDED IN LABORATORY DATA REPORT

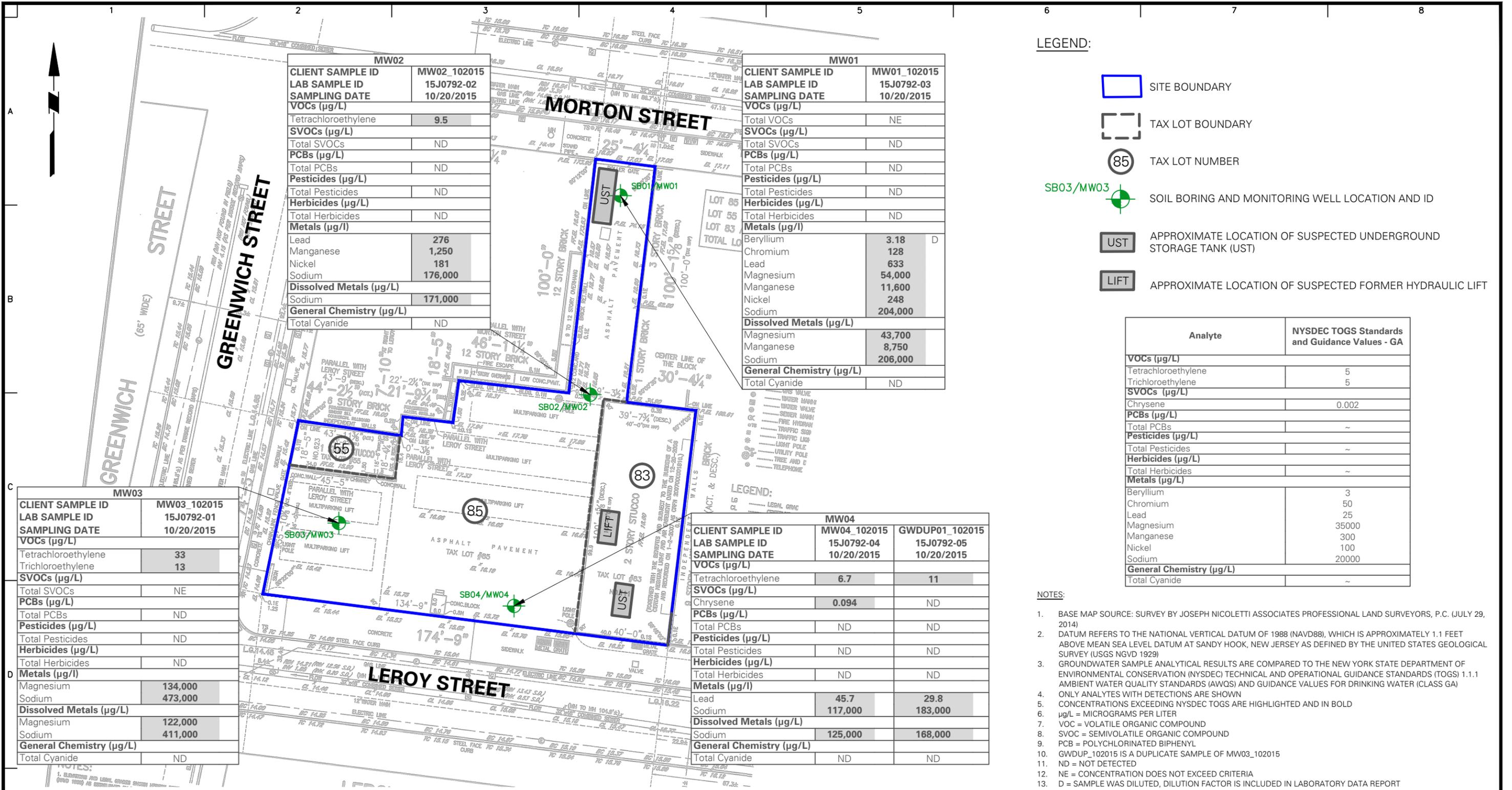


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111 LEROY STREET
 BLOCK No. 602, LOT Nos. 55, 83, and 85
 NEW YORK NEW YORK

Figure Title
SOIL ANALYTICAL RESULTS MAP

Project No. 170370001	Figure No. 4
Date 10/15/2015	
Scale 1" = 50'	
Drawn By PTF	
Submission Date	
Sheet 4 of 6	



MW02	
CLIENT SAMPLE ID	MW02_102015
LAB SAMPLE ID	15J0792-02
SAMPLING DATE	10/20/2015
VOCs (µg/L)	
Tetrachloroethylene	9.5
SVOCs (µg/L)	
Total SVOCs	ND
PCBs (µg/L)	
Total PCBs	ND
Pesticides (µg/L)	
Total Pesticides	ND
Herbicides (µg/L)	
Total Herbicides	ND
Metals (µg/l)	
Lead	276
Manganese	1,250
Nickel	181
Sodium	176,000
Dissolved Metals (µg/L)	
Sodium	171,000
General Chemistry (µg/L)	
Total Cyanide	ND

MW01	
CLIENT SAMPLE ID	MW01_102015
LAB SAMPLE ID	15J0792-03
SAMPLING DATE	10/20/2015
VOCs (µg/L)	
Total VOCs	NE
SVOCs (µg/L)	
Total SVOCs	ND
PCBs (µg/L)	
Total PCBs	ND
Pesticides (µg/L)	
Total Pesticides	ND
Herbicides (µg/L)	
Total Herbicides	ND
Metals (µg/l)	
Beryllium	3.18
Chromium	128
Lead	633
Magnesium	54,000
Manganese	11,600
Nickel	248
Sodium	204,000
Dissolved Metals (µg/L)	
Magnesium	43,700
Manganese	8,750
Sodium	206,000
General Chemistry (µg/L)	
Total Cyanide	ND

MW03	
CLIENT SAMPLE ID	MW03_102015
LAB SAMPLE ID	15J0792-01
SAMPLING DATE	10/20/2015
VOCs (µg/L)	
Tetrachloroethylene	33
Trichloroethylene	13
SVOCs (µg/L)	
Total SVOCs	NE
PCBs (µg/L)	
Total PCBs	ND
Pesticides (µg/L)	
Total Pesticides	ND
Herbicides (µg/L)	
Total Herbicides	ND
Metals (µg/l)	
Magnesium	134,000
Sodium	473,000
Dissolved Metals (µg/L)	
Magnesium	122,000
Sodium	411,000
General Chemistry (µg/L)	
Total Cyanide	ND

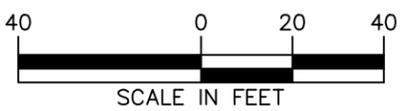
MW04		
CLIENT SAMPLE ID	MW04_102015	GWDUP01_102015
LAB SAMPLE ID	15J0792-04	15J0792-05
SAMPLING DATE	10/20/2015	10/20/2015
VOCs (µg/L)		
Tetrachloroethylene	6.7	11
SVOCs (µg/L)		
Chrysene	0.094	ND
PCBs (µg/L)		
Total PCBs	ND	ND
Pesticides (µg/L)		
Total Pesticides	ND	ND
Herbicides (µg/L)		
Total Herbicides	ND	ND
Metals (µg/l)		
Lead	45.7	29.8
Sodium	117,000	183,000
Dissolved Metals (µg/L)		
Sodium	125,000	168,000
General Chemistry (µg/L)		
Total Cyanide	ND	ND

LEGEND:

- SITE BOUNDARY
- TAX LOT BOUNDARY
- 85 TAX LOT NUMBER
- SOIL BORING AND MONITORING WELL LOCATION AND ID
- UST APPROXIMATE LOCATION OF SUSPECTED UNDERGROUND STORAGE TANK (UST)
- LIFT APPROXIMATE LOCATION OF SUSPECTED FORMER HYDRAULIC LIFT

Analyte	NYSDEC TOGS Standards and Guidance Values - GA
VOCs (µg/L)	
Tetrachloroethylene	5
Trichloroethylene	5
SVOCs (µg/L)	
Chrysene	0.002
PCBs (µg/L)	
Total PCBs	-
Pesticides (µg/L)	
Total Pesticides	-
Herbicides (µg/L)	
Total Herbicides	-
Metals (µg/L)	
Beryllium	3
Chromium	50
Lead	25
Magnesium	35000
Manganese	300
Nickel	100
Sodium	20000
General Chemistry (µg/L)	
Total Cyanide	-

- NOTES:
- BASE MAP SOURCE: SURVEY BY JOSEPH NICOLETTI ASSOCIATES PROFESSIONAL LAND SURVEYORS, P.C. (JULY 29, 2014)
 - DATUM REFERS TO THE NATIONAL VERTICAL DATUM OF 1988 (NAV88), WHICH IS APPROXIMATELY 1.1 FEET ABOVE MEAN SEA LEVEL DATUM AT SANDY HOOK, NEW JERSEY AS DEFINED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS NGVD 1929)
 - GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE STANDARDS (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS (AWQS) AND GUIDANCE VALUES FOR DRINKING WATER (CLASS GA)
 - ONLY ANALYTES WITH DETECTIONS ARE SHOWN
 - CONCENTRATIONS EXCEEDING NYSDEC TOGS ARE HIGHLIGHTED AND IN BOLD
 - µg/L = MICROGRAMS PER LITER
 - VOC = VOLATILE ORGANIC COMPOUND
 - SVOC = SEMIVOLATILE ORGANIC COMPOUND
 - PCB = POLYCHLORINATED BIPHENYL
 - GWDUP_102015 IS A DUPLICATE SAMPLE OF MW03_102015
 - ND = NOT DETECTED
 - NE = CONCENTRATION DOES NOT EXCEED CRITERIA
 - D = SAMPLE WAS DILUTED, DILUTION FACTOR IS INCLUDED IN LABORATORY DATA REPORT

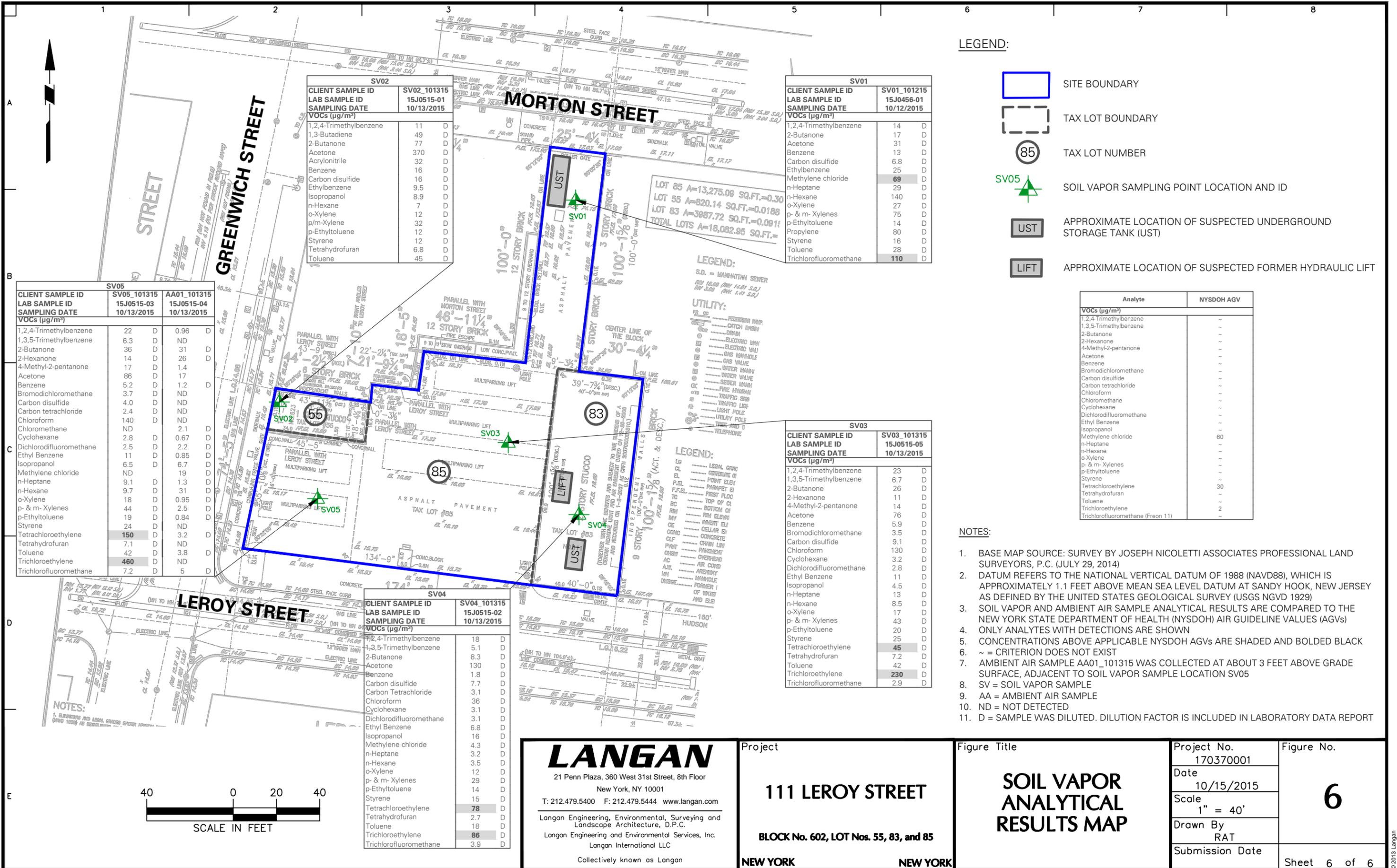


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Project
111 LEROY STREET
BLOCK No. 602, LOT Nos. 55, 83, and 85
NEW YORK NEW YORK

Figure Title
GROUNDWATER ANALYTICAL RESULTS MAP

Project No. 170370001	Figure No. 5
Date 10/15/2015	
Scale 1" = 40'	
Drawn By RAT	Sheet 5 of 6
Submission Date	



SV02		
CLIENT SAMPLE ID	SV02_101315	
LAB SAMPLE ID	15J0515-01	
SAMPLING DATE	10/13/2015	
VOCs (µg/m³)		
1,2,4-Trimethylbenzene	11	D
1,3-Butadiene	49	D
2-Butanone	77	D
Acetone	370	D
Acrylonitrile	32	D
Benzene	16	D
Carbon disulfide	16	D
Ethylbenzene	9.5	D
Isopropanol	8.9	D
n-Hexane	7	D
o-Xylene	12	D
p-m-Xylenes	32	D
p-Ethyltoluene	12	D
Styrene	12	D
Tetrahydrofuran	6.8	D
Toluene	45	D

SV01		
CLIENT SAMPLE ID	SV01_101215	
LAB SAMPLE ID	15J0456-01	
SAMPLING DATE	10/12/2015	
VOCs (µg/m³)		
1,2,4-Trimethylbenzene	14	D
2-Butanone	17	D
Acetone	31	D
Benzene	13	D
Carbon disulfide	6.8	D
Ethylbenzene	25	D
Methylene chloride	69	D
n-Heptane	29	D
n-Hexane	140	D
o-Xylene	27	D
p- & m- Xylenes	75	D
p-Ethyltoluene	14	D
Propylene	80	D
Styrene	16	D
Toluene	28	D
Trichlorofluoromethane	110	D

SV05			
CLIENT SAMPLE ID	SV05_101315	AA01_101315	
LAB SAMPLE ID	15J0515-03	15J0515-04	
SAMPLING DATE	10/13/2015	10/13/2015	
VOCs (µg/m³)			
1,2,4-Trimethylbenzene	22	D	0.96
1,3,5-Trimethylbenzene	6.3	D	ND
2-Butanone	36	D	31
2-Hexanone	14	D	26
4-Methyl-2-pentanone	17	D	1.4
Acetone	86	D	17
Benzene	5.2	D	1.2
Bromodichloromethane	3.7	D	ND
Carbon disulfide	4.0	D	ND
Carbon tetrachloride	2.4	D	ND
Chloroform	140	D	ND
Chloromethane	ND	D	2.1
Cyclohexane	2.8	D	0.67
Dichlorodifluoromethane	2.5	D	2.2
Ethyl Benzene	11	D	0.85
Isopropanol	6.5	D	6.7
Methylene chloride	ND	D	19
n-Heptane	9.1	D	1.3
n-Hexane	9.7	D	31
o-Xylene	18	D	0.95
p- & m- Xylenes	44	D	2.5
p-Ethyltoluene	19	D	0.84
Styrene	24	D	ND
Tetrachloroethylene	150	D	3.2
Tetrahydrofuran	7.1	D	ND
Toluene	42	D	3.8
Trichloroethylene	460	D	ND
Trichlorofluoromethane	7.2	D	5

SV03		
CLIENT SAMPLE ID	SV03_101315	
LAB SAMPLE ID	15J0515-05	
SAMPLING DATE	10/13/2015	
VOCs (µg/m³)		
1,2,4-Trimethylbenzene	23	D
1,3,5-Trimethylbenzene	6.7	D
2-Butanone	26	D
2-Hexanone	11	D
4-Methyl-2-pentanone	14	D
Acetone	76	D
Benzene	5.9	D
Bromodichloromethane	3.5	D
Carbon disulfide	9.1	D
Chloroform	130	D
Cyclohexane	3.2	D
Dichlorodifluoromethane	2.8	D
Ethyl Benzene	11	D
Isopropanol	4.5	D
n-Heptane	13	D
n-Hexane	8.5	D
o-Xylene	17	D
p- & m- Xylenes	43	D
p-Ethyltoluene	20	D
Styrene	25	D
Tetrachloroethylene	45	D
Tetrahydrofuran	7.2	D
Toluene	42	D
Trichloroethylene	230	D
Trichlorofluoromethane	2.9	D

SV04		
CLIENT SAMPLE ID	SV04_101315	
LAB SAMPLE ID	15J0515-02	
SAMPLING DATE	10/13/2015	
VOCs (µg/m³)		
1,2,4-Trimethylbenzene	18	D
1,3,5-Trimethylbenzene	5.1	D
2-Butanone	8.3	D
Acetone	130	D
Benzene	1.8	D
Carbon disulfide	7.7	D
Carbon Tetrachloride	3.1	D
Chloroform	36	D
Cyclohexane	3.1	D
Dichlorodifluoromethane	3.1	D
Ethyl Benzene	6.8	D
Isopropanol	16	D
Methylene chloride	4.3	D
n-Heptane	3.2	D
n-Hexane	3.5	D
o-Xylene	12	D
p- & m- Xylenes	29	D
p-Ethyltoluene	14	D
Styrene	15	D
Tetrachloroethylene	78	D
Tetrahydrofuran	2.7	D
Toluene	18	D
Trichloroethylene	86	D
Trichlorofluoromethane	3.9	D

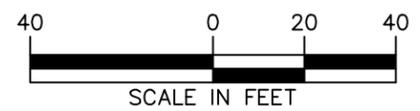
LEGEND:

- SITE BOUNDARY
- TAX LOT BOUNDARY
- TAX LOT NUMBER
- SOIL VAPOR SAMPLING POINT LOCATION AND ID
- APPROXIMATE LOCATION OF SUSPECTED UNDERGROUND STORAGE TANK (UST)
- APPROXIMATE LOCATION OF SUSPECTED FORMER HYDRAULIC LIFT

Analyte	NYSDOH AGV
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	-
1,3,5-Trimethylbenzene	-
2-Butanone	-
2-Hexanone	-
4-Methyl-2-pentanone	-
Acetone	-
Benzene	-
Bromodichloromethane	-
Carbon disulfide	-
Carbon tetrachloride	-
Chloroform	-
Chloromethane	-
Cyclohexane	-
Dichlorodifluoromethane	-
Ethyl Benzene	-
Isopropanol	-
Methylene chloride	60
n-Heptane	-
n-Hexane	-
o-Xylene	-
p- & m- Xylenes	-
p-Ethyltoluene	-
Styrene	-
Tetrachloroethylene	30
Tetrahydrofuran	-
Toluene	-
Trichloroethylene	2
Trichlorofluoromethane (Freon 11)	-

NOTES:

1. BASE MAP SOURCE: SURVEY BY JOSEPH NICOLETTI ASSOCIATES PROFESSIONAL LAND SURVEYORS, P.C. (JULY 29, 2014)
2. DATUM REFERS TO THE NATIONAL VERTICAL DATUM OF 1988 (NAVD88), WHICH IS APPROXIMATELY 1.1 FEET ABOVE MEAN SEA LEVEL DATUM AT SANDY HOOK, NEW JERSEY AS DEFINED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS NGVD 1929)
3. SOIL VAPOR AND AMBIENT AIR SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) AIR GUIDELINE VALUES (AGVs)
4. ONLY ANALYTES WITH DETECTIONS ARE SHOWN
5. CONCENTRATIONS ABOVE APPLICABLE NYSDOH AGVs ARE SHADED AND BOLDED BLACK
6. ~ = CRITERION DOES NOT EXIST
7. AMBIENT AIR SAMPLE AA01_101315 WAS COLLECTED AT ABOUT 3 FEET ABOVE GRADE SURFACE, ADJACENT TO SOIL VAPOR SAMPLE LOCATION SV05
8. SV = SOIL VAPOR SAMPLE
9. AA = AMBIENT AIR SAMPLE
10. ND = NOT DETECTED
11. D = SAMPLE WAS DILUTED. DILUTION FACTOR IS INCLUDED IN LABORATORY DATA REPORT



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 Langan International LLC
 Collectively known as Langan

Project
111 LEROY STREET
 BLOCK No. 602, LOT Nos. 55, 83, and 85
 NEW YORK NEW YORK

Figure Title
SOIL VAPOR ANALYTICAL RESULTS MAP

Project No. 170370001	Figure No. 6
Date 10/15/2015	
Scale 1" = 40'	
Drawn By RAT	
Submission Date	Sheet 6 of 6

TABLES

**Table 1
Soil Sample Summary
Remedial Investigation Report**

111 Leroy Street
New York, New York
OER Project No. 16RH-A105M
Active NYSDEC Spill Nos. 06-11866 and 15-07406
Langan Project No. 170370001

Boring ID	Sampling Depth	Sample ID	Sample Date	Sample Time	Sample Type	Analysis
SB01	0-2 feet bgs	SB01_0-2	10/12/2015	0815	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	18-20 feet bgs	SB01_18-20		0845		
SB02	0-2 feet bgs	SB02_0-2	10/13/2015	1245	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	18-20 feet bgs	SB02_18-20		1245		
		DUP01_101315			Field Duplicate, Grab	
SB03	0-2 feet bgs	SB03_0-2	10/13/2015	0815	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	16-17 feet bgs	SB03_16-17		0830		
SB04	0-2 feet bgs	SB04_0-2	10/12/2015	1315	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	16-18 feet bgs	SB04_16-18		1330		
SB05	0-2 feet bgs	SB05_0-2	10/12/2015	1010	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	21-23 feet bgs	SB05_21-23		1100		
SB06	0-2 feet bgs	SB06_0-2	10/13/2015	1055	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	17-19 feet bgs	SB06_17-19		1110		
SB07	0-2 feet bgs	SB07_0-2	10/13/2015	0745	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	17-19 feet bgs	SB07_17-19		0800		
SB08	0-2 feet bgs	SB08_0-2	10/12/2015	1230	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	16-18 feet bgs	SB08_16-18		1305		
SB09	0-2 feet bgs	SB09_0-2	10/12/2015	1200	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	17-19 feet bgs	SB09_17-19		1215		
SB10	0-2 feet bgs	SB10_0-2	10/13/2015	1130	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
	12-14 feet bgs	SB10_12-14		1145		
	17-19 feet bgs	SB10_17-19		1155		
N/A	N/A	SOFB01_101215	10/12/2015	1400	Field Blank	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals), Cyanide, Trivalent Chromium, Hexavalent Chromium
N/A	N/A	SOTB01_101215	10/12/2015	n/a	Trip Blank	TCL List (VOCs)
		SOTB02_101315	10/13/2015			

Notes:

- All soil samples for VOC analysis were collected using Terra Core™ sampling devices.
- bgs = below grade surface
- VOC = Volatile Organic Compound
- SVOC = Semivolatile Organic Compound
- PCB = Polychlorinated Biphenyl
- TCL = Target Compound List
- TAL = Target Analyte List

Table 2
Groundwater Sample Summary
Remedial Investigation Report

111 Leroy Street
New York, New York
OER Project No. 16RH-A105M
Active NYSDEC Spill Nos. 06-11866 and 15-07406
Langan Project No. 170370001

Well ID	Sample ID	Sample Date	Sample Time	Sample Type	Analysis
MW01	MW01_102015	10/20/2015	1115	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals [<i>Filtered and Unfiltered</i>]), Cyanide, Trivalent Chromium, Hexavalent Chromium
MW02	MW02_102015	10/20/2015	0945	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals [<i>Filtered and Unfiltered</i>]), Cyanide, Trivalent Chromium, Hexavalent Chromium
	DUP01_102015			Field Duplicate, Grab	
MW03	MW03_102015	10/20/2015	0845	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals [<i>Filtered and Unfiltered</i>]), Cyanide, Trivalent Chromium, Hexavalent Chromium
MW04	MW03_102015	10/20/2015	1400	Grab	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals [<i>Filtered and Unfiltered</i>]), Cyanide, Trivalent Chromium, Hexavalent Chromium
N/A	GWFB01_102015	10/20/2015	0700	Field Blank	TCL/TAL List (VOCs, SVOCs, PCBs, Pesticides, Herbicides, Metals, Cyanide, Trivalent Chromium, Hexavalent Chromium)
N/A	GWTB01_102015	10/20/2015	n/a	Trip Blank	TCL List (VOCs)

Notes:

1. Groundwater samples were collected via NYSDEC DER-10 and USEPA's *Low Flow Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells*.
2. Sampling pump intakes were set about 2 feet above the bottom of the wells (about 8 feet below top of well screens) during groundwater sampling.
3. Samples analyzed for metals were field-filtered using an inline 0.45-micron filter.
4. VOC = Volatile Organic Compound
5. SVOC = Semivolatile Organic Compound
6. PCB = Polychlorinated Biphenyl
7. TCL = Target Compound List
8. TAL = Target Analyte List

**Table 3
Soil Vapor Sample Summary
Remedial Investigation Report**

**111 Leroy Street
New York, New York
OER Project No. 16RH-A105M
Active NYSDEC Spill Nos. 06-11866 and 15-07406
Langan Project No. 170370001**

Sample Location	Sample ID	Sample Date	Sample Time	Sample Type	Sampling Depth	Sample Collection Time	Analysis
SV01	SV01_101215	10/12/2015	0920	Soil Vapor, Grab	6 feet below grade surface	2 Hours	USEPA TO-15
SV02	SV02_101315	10/13/2015	0722	Sub-Slab Soil Vapor, Grab	1 foot below grade surface		
SV03	SV03_101315		1030	Soil Vapor, Grab	6 feet below grade surface		
SV04	SV04_101315		0942	Sub-Slab Soil Vapor, Grab	1 foot below grade surface		
SV05	SV05_101315		1020	Soil Vapor, Grab	6 feet below grade surface		
Adjacent to SV05, aboveground	AA01_101315		1021	Ambient Air, Grab	3 feet above grade surface		

Notes:

1. Sampling Depth refers to bottom of steel soil vapor sampling probe.

Table 4
Soil Detections Summary
Remedial Investigation Report

111 Leroy Street
New York, New York
OER Project No. 16RH-A105M
Active NYSDEC Spill Nos. 06-11866 and 15-07406
Langan Project No. 170370001

LOCATION CLIENT SAMPLE ID LAB SAMPLE ID SAMPLING DATE SAMPLING DEPTH (FEET)	NYSDEC PART 375 UNRESTRICTED USE SCO	NYSDEC PART 375 RESTRICTED- RESIDENTIAL USE SCO	SB01		SB02		SB03		SB04		SB05		SB06		SB07		SB08		SB09		SB10			
			SB01 0-2 15J0461-01 10/12/2015 0 to 2	SB01 18-20 15J0461-02 10/12/2015 18 to 20	SB02 0-2 15J0508-11 10/13/2015 0 to 2	SB02 18-20 15J0508-12 10/13/2015 18 to 20	DUP01 101315 15J0508-10 10/13/2015 18 to 20	SB03 0-2 15J0508-03 10/13/2015 0 to 2	SB03 16-17 15J0508-04 10/13/2015 16 to 17	SB04 0-2 15J0461-09 10/12/2015 0 to 2	SB04 16-18 15J0461-10 10/12/2015 16 to 18	SB05 0-2 15J0461-03 10/12/2015 0 to 2	SB05 21-23 15J0461-04 10/13/2015 21 to 23	SB06 0-2 15J0508-05 10/13/2015 0 to 2	SB06 17-19 15J0508-06 10/13/2015 17 to 19	SB07 0-2 15J0508-01 10/13/2015 0 to 2	SB07 17-19 15J0508-02 10/13/2015 17 to 19	SB08 0-2 15J0461-07 10/12/2015 0 to 2	SB08 16-18 15J0461-08 10/12/2015 16 to 18	SB09 0-2 15J0461-05 10/12/2015 0 to 2	SB09 17-19 15J0461-06 10/12/2015 17 to 19	SB10 0-2 15J0508-07 10/13/2015 0 to 2	SB10 12-14 15J0508-08 10/13/2015 12 to 14	SB10 17-19 15J0508-09 10/13/2015 17 to 19
Volatile Organic Compounds (mg/kg)																								
1,2,4-Trimethylbenzene	3.6	52	0.0024 U	0.38 UD	0.0024 U	0.0023 U	0.0022 U	0.0025 U	0.0041 U	0.0024 U	0.0025 U	0.0028 U	0.0026 U	0.0031 U	0.0027 U	0.0023 U	0.0025 U	0.0025 U	0.0031 U	0.0032 U	0.0029 U	0.0023 U	0.12	0.0024 U
1,3,5-Trimethylbenzene	8.4	52	0.0024 U	0.38 UD	0.0024 U	0.0023 U	0.0022 U	0.0025 U	0.0041 U	0.0024 U	0.0025 U	0.0028 U	0.0026 U	0.0031 U	0.0027 U	0.0023 U	0.0025 U	0.0025 U	0.0031 U	0.0032 U	0.0029 U	0.0023 U	0.063	0.0024 U
2-Butanone	0.12	100	0.0024 U	0.38 UD	0.0024 U	0.0023 U	0.0022 U	0.0025 U	0.005 J	0.0074	0.0036 J	0.0028 U	0.0026 U	0.0031 U	0.0027 U	0.0023 U	0.0025 U	0.0086	0.0098	0.0032 U	0.0029 U	0.0023 U	0.089	0.0024 U
Acetone	0.05	100	0.0075 J	0.76 UD	0.011	0.013	0.0044 U	0.0072 J	0.035	0.014	0.0059 J	0.0055 U	0.012	0.01 J	0.013	0.0021 U	0.0084 J	0.0050 U	0.0098 J	0.0091 J	0.015	0.014	0.013	0.013
Methylcyclohexane	~	~	0.0024 U	0.38 UD	0.0024 U	0.0023 U	0.0022 U	0.0025 U	0.0041 U	0.0024 U	0.0025 U	0.0028 U	0.0026 U	0.0031 U	0.0027 U	0.0023 U	0.0025 U	0.0025 U	0.0031 U	0.0032 U	0.0029 U	0.0023 U	0.0099	0.0024 U
Methylene chloride	0.05	100	0.0048 U	0.76 UD	0.0047 U	0.0047 U	0.0044 U	0.0049 U	0.010 J	0.0047 U	0.0051 U	0.0055 U	0.0059 J	0.0061 U	0.0054 U	0.0047 U	0.0050 U	0.0050 U	0.0062 U	0.0063 U	0.0079 J	0.0046 U	0.0055 U	0.0049 U
n-Propylbenzene	3.9	100	0.0024 U	0.38 UD	0.0024 U	0.0023 U	0.0022 U	0.0025 U	0.0041 U	0.0024 U	0.0025 U	0.0028 U	0.0026 U	0.0031 U	0.0027 U	0.0023 U	0.0025 U	0.0025 U	0.0031 U	0.0032 U	0.0029 U	0.0023 U	0.018	0.0024 U
o-Xylene	~	~	0.0024 U	0.38 UD	0.0024 U	0.0023 U	0.0022 U	0.0025 U	0.0041 U	0.0024 U	0.0025 U	0.0028 U	0.0026 U	0.0031 U	0.0027 U	0.0023 U	0.0025 U	0.0025 U	0.0031 U	0.0032 U	0.0029 U	0.0023 U	0.0035 J	0.0024 U
p- & m- Xylenes	~	~	0.0048 U	0.76 UD	0.0047 U	0.0047 U	0.0044 U	0.0049 U	0.0083 U	0.0047 U	0.0051 U	0.0055 U	0.0053 U	0.0061 U	0.0054 U	0.0047 U	0.0050 U	0.0050 U	0.0062 U	0.0063 U	0.0057 U	0.0046 U	0.0078 J	0.0049 U
sec-Butylbenzene	11	100	0.0024 U	0.38 UD	0.0024 U	0.0023 U	0.0022 U	0.0025 U	0.0041 U	0.0024 U	0.0025 U	0.0028 U	0.0026 U	0.0031 U	0.0027 U	0.0023 U	0.0025 U	0.0025 U	0.0031 U	0.0032 U	0.0029 U	0.0023 U	0.02	0.0024 U
Tetrachloroethylene	1.3	19	0.0024 U	0.38 UD	0.0024 U	0.0023 U	0.0022 U	0.0025 U	0.0041 U	0.0024 U	0.0025 U	0.0028 U	0.0026 U	0.0031 U	0.0027 U	0.0023 U	0.0025 U	0.0025 U	0.0031 U	0.0032 U	0.0029 U	0.0023 U	0.043	0.0024 U
Trichloroethylene	0.47	21	0.0024 U	0.38 UD	0.0024 U	0.0023 U	0.0022 U	0.0025 U	0.0041 U	0.0024 U	0.0025 U	0.0028 U	0.0026 U	0.0031 U	0.0027 U	0.0023 U	0.0025 U	0.0025 U	0.0031 U	0.0032 U	0.0029 U	0.0023 U	0.0033 J	0.0024 U
Xylenes, Total	0.26	100	0.0072 U	1.10 UD	0.0071 U	0.0070 U	0.0066 U	0.0074 U	0.012 U	0.0071 U	0.0076 U	0.0083 U	0.0079 U	0.0092 U	0.0082 U	0.007 U	0.0075 U	0.0093 U	0.0095 U	0.0086 U	0.0069 U	0.011 J	0.0073 U	0.0073 U
Semivolatile Organic Compounds (mg/kg)																								
1,1-Biphenyl	~	~	0.0692 UD	0.574 D	0.0672 UD	0.0654 UD	0.166 UD	0.0717 UD	0.0658 UD	0.0648 UD	0.0672 UD	0.1 JD	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0671 UD	0.0687 UD	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
2-Methylnaphthalene	~	~	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.0717 UD	0.0658 UD	0.0648 UD	0.0672 UD	0.26 D	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0671 UD	0.0687 UD	0.0648 UD	0.0662 UD	1.74 D	0.0668 UD
4-Chloro-3-methylphenol	~	~	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.215 JD	0.0717 UD	0.0658 UD	0.0648 UD	0.0672 UD	0.0698 UD	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0671 UD	0.0687 UD	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Acenaphthene	20	100	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.0717 UD	0.0658 UD	0.0648 UD	0.0672 UD	0.169 D	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0664 JD	0.0976 JD	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Acenaphthylene	100	100	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.0717 UD	0.0658 UD	0.0648 UD	0.109 JD	0.0698 UD	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0671 UD	0.0687 UD	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Anthracene	100	100	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.193 D	0.0924 JD	0.188 D	0.0672 UD	0.604 D	0.0853 JD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0235 D	0.274 D	0.121 JD	0.0662 UD	0.171 UD	0.0668 UD
Benzo(a)anthracene	1	1	0.263 D	0.796 UD	0.115 JD	0.0654 UD	0.166 UD	1.01 D	0.198 D	0.641 D	0.443 D	0.248 D	0.149 D	0.0643 UD	0.0683 UD	0.0643 UD	0.119 JD	0.514 D	1.14 D	0.14 D	0.202 D	0.171 UD	0.0668 UD	
Benzo(a)pyrene	1	1	0.154 D	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.616 D	0.112 JD	0.542 D	0.421 D	0.195 D	0.0985 JD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.267 D	0.806 D	0.102 JD	0.118 JD	0.171 UD	0.0668 UD	
Benzo(b)fluoranthene	1	1	0.138 D	0.796 UD	0.108 JD	0.0654 UD	0.166 UD	0.793 D	0.12 JD	0.405 D	0.415 D	0.172 D	0.137 JD	0.0643 UD	0.0683 UD	0.0643 UD	0.0952 JD	0.379 D	0.718 D	0.0796 JD	0.128 JD	0.171 UD	0.0668 UD	
Benzo(g,h,i)perylene	100	100	0.0933 JD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.375 D	0.0658 UD	0.323 D	0.342 D	0.859 D	0.137 JD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.108 JD	0.487 D	0.0648 UD	0.0803 JD	0.171 UD	0.0668 UD
Benzo(k)fluoranthene	0.8	3.9	0.154 D	0.796 UD	0.0922 JD	0.0654 UD	0.166 UD	0.65 D	0.127 JD	0.456 D	0.403 D	0.986 D	0.156 D	0.102 JD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.277 D	0.707 D	0.0971 JD	0.163 D	0.171 UD	0.0668 UD
Benzyl butyl phthalate	~	~	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.0717 UD	0.0658 UD	0.0648 UD	0.0672 UD	0.0698 UD	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0671 UD	0.0687 UD	0.0648 UD	0.0662 UD	0.297 JD	0.0668 UD
Bis(2-ethylhexyl)phthalate	~	~	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.095 JD	0.0658 UD	0.0648 UD	0.0672 UD	0.0698 UD	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0671 UD	0.0687 UD	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Carbazole	~	~	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.113 JD	0.0658 UD	0.0648 UD	0.0672 UD	0.147 D	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.126 JD	0.113 JD	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Chrysene	1	3.9	0.277 D	0.796 UD	0.121 JD	0.0654 UD	0.166 UD	1.02 D	0.211 D	0.55 D	0.367 D	0.239 D	0.149 D	0.0643 UD	0.0683 UD	0.0643 UD	0.13 JD	0.453 D	1.08 D	0.128 JD	0.21 D	0.171 UD	0.0668 UD	
Dibenz(a,h)anthracene	0.33	0.33	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.256 D	0.0658 UD	0.0648 UD	0.0672 UD	0.344 D	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0814 JD	0.175 D	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Dibenzofuran	7	59	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.0717 UD	0.0658 UD	0.0648 UD	0.0672 UD	0.154 D	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0857 JD	0.0687 UD	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Di-n-octyl phthalate	~	~	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.119 JD	0.0658 UD	0.0648 UD	0.0672 UD	0.0698 UD	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.0671 UD	0.0687 UD	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Fluoranthene	100	100	0.499 D	0.796 UD	0.206 D	0.0654 UD	0.166 UD	1.69 D	0.403 D	1 D	0.459 D	3.18 D	0.515 D	0.303 D	0.0643 UD	0.0683 UD	0.0643 UD	0.203 D	1.29 D	1.71 D	0.396 D	0.374 D	0.171 UD	0.0668 UD
Fluorene	30	100	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.0717 UD	0.0658 UD	0.0648 UD	0.0672 UD	0.173 D	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.135 D	0.0822 JD	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.0805 JD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.403 D	0.0658 UD	0.326 D	0.299 D	0.854 D	0.125 JD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.071 UD	0.13 JD	0.482 D	0.0648 UD	0.0662 UD	0.171 UD	0.0668 UD
Naphthalene	12	100	0.0692 UD	0.796 UD	0.0672 UD	0.0654 UD	0.166 UD	0.0717 UD	0.0658 UD	0.104 JD	0.0858 JD	0.39 D	0.0704 UD	0.0702 UD	0.0643 UD	0.0683 UD	0.0643 UD	0.181 D	0.102 JD	0.149 D	0.0648 UD	0.0662 UD	0.425 D	0.0668 UD

**Table 5
Groundwater Sample Detections Summary
Remedial Investigation Report**

**111 Leroy St
New York, New York
OER Project No. 16RH-A105M
Active NYSDEC Spill Nos. 06-11866 and 15-07406
Langan Project No. 170370001**

Sample Location Client Sample ID Lab Sample ID Sampling Date	NYSDEC TOGS Standards and Guidance Values - GA	MW01	MW02	MW03	MW04		
		MW01_102015 15J0792-03 10/20/2015	MW02_102015 15J0792-02 10/20/2015	MW03_102015 15J0792-01 10/20/2015	MW04_102015 15J0792-04 10/20/2015	GW04 GWDUP01_102015 15J0792-05 10/20/2015	
Volatile Organic Compounds (ug/L)							
1,2-Dichloropropane	1	0.28 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-Trimethylbenzene	5	4.3	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone	50	1.3	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Acetone	50	4.6	1.1 J	1 U	1.2 J	1.6 J	1.6 J
Benzene	1	0.71	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	50	0.2 U	0.2 U	0.2 U	0.69	0.2 U	0.2 U
Carbon disulfide	~	0.25 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloroform	7	0.57	1.2	2.9	6.6	1.2	1.2
cis-1,2-Dichloroethylene	5	0.2 U	0.23 J	1.8	0.2 U	0.25 J	0.25 J
Cyclohexane	~	0.4 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Isopropylbenzene	5	1	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
n-Propylbenzene	5	0.74	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
o-Xylene	5	0.51	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
p-Isopropyltoluene	5	0.23 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
sec-Butylbenzene	5	0.38 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethylene	5	1.2	9.5	33	6.7	11	
Toluene	5	0.23 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,2-Dichloroethylene	5	0.2 U	0.2 U	0.34 J	0.2 U	0.2 U	0.2 U
Trichloroethylene	5	0.52	1.2	13	1.7	1.9	1.9
Xylenes, Total	5	0.88 J	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
Semivolatile Organic Compounds (ug/L)							
Bis(2-ethylhexyl)phthalate	5	1.48 U	0.51 U	0.78	0.59 U	0.98	
Chrysene	0.002	0.15 U	0.05 U	0.05 U	0.094	0.06 U	0.06 U
Fluoranthene	50	0.15 U	0.051 U	0.053 U	0.15	0.059 U	0.059 U
Phenanthrene	50	0.15 U	0.051 U	0.053 U	0.082	0.059 U	0.059 U
Pyrene	50	0.15 U	0.051 U	0.053 U	0.2	0.059 U	0.059 U
Herbicides (ug/L)							
Herbicides, Total	~	ND	ND	ND	ND	ND	ND
Pesticides (ug/L)							
Pesticides, Total	~	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (ug/L)							
PCBs, Total	0.09	ND	ND	ND	ND	ND	ND
Metals (ug/L)							
Aluminum	~	33,800	9,480	1,740	4,430	3,380	
Arsenic	25	12.9 D	12.1 D	23.3 D	3.82 D	5.68 D	5.68 D
Barium	1000	914	446	195	346	242	242
Beryllium	3	3.18 D	0.62 D	0.60 U	0.6 U	0.6 U	0.6 U
Cadmium	5	1.22 D	1 U	1 U	1 U	1 U	1 U
Calcium	~	147,000	90,300	347,000	80,100	87,400	
Chromium	50	128	39.5	9.97	11.8	11.7	
Copper	200	151	44.2	13.5	9.01	9.93	
Iron	~	49,200	11,300	1,780	3,750	3,380	
Lead	25	633	276	11.3	45.7	29.8	
Magnesium	35000	54,000	34,300	134,000	20,600	32,700.00	
Manganese	300	11,600	1,250	246	182	141	
Molybdenum	~	16.6 D	4.1 D	2.3 D	11.5 D	2.5 D	2.5 D
Nickel	100	248	181	24.7	15.8	32.7	
Potassium	~	27,900	18,000	28,700	17,000	15,900	
Sodium	20000	204,000	176,000	473,000	117,000	183,000	
Vanadium	~	95	19	11.1 U	11.1 U	11.1 U	11.1 U
Zinc	2000	325	137	63.2	49	38.4	
Dissolved Metals (ug/L)							
Aluminum	~	173	55.6 U	55.6 U	55.6 U	55.6 U	55.6 U
Arsenic	25	3.2 D	6.56 D	23.8 D	4.36 D	5.6 D	5.6 D
Barium	1000	333	199	173	274	195	
Calcium	~	115,000	79,100	312,000	82,600	78,800	
Chromium	50	5.7	5.56 U	7.73	37.7	38.1	
Copper	200	12	8.92	10	7.57	7.85	
Iron	~	561	34.6	98.7	169	174	
Magnesium	35000	43,700	30,000	122,000	20,300	29,400	
Manganese	300	8,750	13	117	64.6	15.1	
Molybdenum	~	11.9 D	2.30 D	2.04 D	11.7 D	2.18 D	2.18 D
Nickel	100	48.1	15.7	20.1	23.3	34.4	
Potassium	~	17,300	15,000	26,500	16,500	14,600	
Sodium	20000	206,000	171,000	411,000	125,000	168,000	
Zinc	2000	32.2	24.2	28.2	21.4	39.4	
General Chemistry (ug/L)							
Chromium, Trivalent	~	128	39.5	10 U	11.8	11.7	

Notes and Qualifiers:

- Groundwater results are compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs) for Class GA water.
- Only analytes with detections are shown in the table.
- Concentrations exceeding their NYSDEC TOGS 1.1.1 SGVs are shaded and bolded black.
- Reporting Limits (RL) above NYSDEC TOGS 1.1.1 SGVs are italicized.
- ug/L = micrograms per liter
- ~ = Criterion does not exist.

- ND = Not detected
- J = The analyte was detected above the Method Detection Limit (MDL), but below the Reporting Limit (RL); therefore, the result is an estimated concentration.
- U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
- D = The sample was diluted; the dilution factor is included in the laboratory data report.

Table 6
Soil Vapor Sample Detections Summary
Remedial Investigation Report

111 Leroy St
New York, New York
OER Project No. 16RH-A105M
Active NYSDEC Spill Nos. 06-11866 and 15-07406
Langan Project No. 170370001

Sample Location Client Sample ID Lab Sample ID Sampling Date Sample Type	NYSDOH AGV	SV01	SV02	SV03	SV04	SV05		
		SV01_101215	SV02_101315	SV03_101315	SV04_101315	SV05_101315	AA01_101315	
		15J0456-01 10/12/2015 SV	15J0515-01 10/13/2015 SV	15J0515-05 10/13/2015 SV	15J0515-02 10/13/2015 SV	15J0515-03 10/13/2015 SV	15J0515-04 10/13/2015 AA	
Volatile Organic Compounds (ug/m³)								
1,2,4-Trimethylbenzene	~	14 D	11 D	23 D	18 D	22 D	0.96 D	
1,3,5-Trimethylbenzene	~	9.0 UD	5.4 UD	6.7 D	5.1 D	6.3 D	0.60 UD	
1,3-Butadiene	~	24 UD	49 D	5.6 UD	5.4 UD	5.6 UD	1.6 UD	
2-Butanone	~	17 D	77 D	26 D	8.3 D	36 D	31 D	
2-Hexanone	~	15 UD	9.0 UD	11 D	3.4 UD	14 D	26 D	
4-Methyl-2-pentanone	~	7.5 UD	4.5 UD	14 D	1.7 UD	17 D	1.4 D	
Acetone	~	31 D	370 D	76 D	130 D	86 D	17 D	
Acrylonitrile	~	4.0 UD	32 D	0.93 UD	0.89 UD	0.93 UD	0.26 UD	
Benzene	~	13 D	16 D	5.9 D	1.8 D	5.2 D	1.2 D	
Bromodichloromethane	~	11 UD	6.8 UD	3.5 D	2.6 UD	3.7 D	0.76 UD	
Carbon disulfide	~	6.8 D	16 D	9.1 D	7.7 D	4.0 D	0.38 UD	
Carbon tetrachloride	~	2.9 UD	1.7 UD	0.67 UD	3.1 D	2.4 D	0.19 UD	
Chloroform	~	8.9 UD	5.3 UD	130 D	36 D	140 D	0.60 UD	
Chloromethane	~	3.8 UD	2.3 UD	0.89 UD	0.85 UD	0.89 UD	2.1 D	
Cyclohexane	~	6.3 UD	3.8 UD	3.2 D	3.1 D	2.8 D	0.67 D	
Dichlorodifluoromethane	~	9.1 UD	5.4 UD	2.8 D	3.1 D	2.5 D	2.2 D	
Ethyl Benzene	~	25 D	9.5 D	11 D	6.8 D	11 D	0.85 D	
Isopropanol	~	9.0 UD	8.9 D	4.5 D	16 D	6.5 D	6.7 D	
Methylene chloride	60	69 D	7.6 UD	3.0 UD	4.3 D	3.0 UD	19 D	
n-Heptane	~	29 D	4.5 UD	13 D	3.2 D	9.1 D	1.3 D	
n-Hexane	~	140 D	7.0 D	8.5 D	3.5 D	9.7 D	31 D	
o-Xylene	~	27 D	12 D	17 D	12 D	18 D	0.95 D	
p- & m- Xylenes	~	75 D	32 D	43 D	29 D	44 D	2.5 D	
p-Ethyltoluene	~	14 D	12 D	20 D	14 D	19 D	0.84 D	
Propylene	~	80 D	1.9 UD	0.74 UD	0.71 UD	0.74 UD	0.21 UD	
Styrene	~	16 D	12 D	25 D	15 D	24 D	0.52 UD	
Tetrachloroethylene	30	3.1 UD	1.9 UD	45 D	78 D	150 D	3.2 D	
Tetrahydrofuran	~	11 UD	6.8 D	7.2 D	2.7 D	7.1 D	0.72 UD	
Toluene	~	28 D	45 D	42 D	18 D	42 D	3.8 D	
Trichloroethylene	2	110 D	1.5 UD	230 D	86 D	460 D	0.16 UD	
Trichlorofluoromethane (Freon 11)	~	10 UD	6.2 UD	2.9 D	3.9 D	7.2 D	5.0 D	

Notes:

- Soil vapor and ambient air sample analytical results are compared to the New York State Department of Health (NYSDOH) Air Guideline Values (AGVs).
- Only analytes with detections are shown in the table.
- Concentrations above applicable NYSDOH AGVs are shaded and bolded black.
- ~ = Criterion does not exist.
- Ambient air sample AA01_101315 was collected at about 3 feet above grade surface, adjacent to soil vapor sample location SV05.
- SV = soil vapor sample
- AA = ambient air sample

Qualifiers:

U = Analyte was analyzed for, but was not detected at a level greater than or equal to the Reporting Limit (RL); the value shown in the table is the RL.
D = Sample was diluted. Dilution factor is included in laboratory data report.

Table 7
QA/QC Sample Detections Summary
Remedial Investigation Report

111 Leroy St
New York, New York
OER Project No. 16RH-A105M
Active NYSDEC Spill Nos. 06-11866 and 15-07406
Langan Project No. 170370001

Sample Type	Field Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank
Client Sample ID	SOFB01_101215	GWFB01_102015	SOTB_101215	SOTB02_101315	TRIPBLANK
Lab Sample ID	15J0461-12	15J0792-06	15J0461-11	15J0508-13	15J0792-07
Sampling Date	10/12/2015	10/20/2015	10/12/2015	10/13/2015	10/20/2015
Volatile Organic Compounds (µg/L)					
Acetone	1 J	1.7 J	1.8 J	1.6 JB	1 U
Carbon disulfide	0.2 U	0.2 U	0.2 U	0.22 JB	0.2 U
Methylene chloride	1 U	1 U	4.3	3.4	1 U
Semivolatile Organic Compounds (µg/L)					
Bis(2-ethylhexyl)phthalate	1.75	0.56 U	NT	NT	NT
Herbicides (µg/L)					
Total Herbicides	ND	ND	NT	NT	NT
Pesticides (µg/L)					
Total Pesticides	ND	ND	NT	NT	NT
Polychlorinated Biphenyls (µg/L)					
Total PCBs	ND	ND	NT	NT	NT
Metals (µg/L)					
Calcium	78	78.7	NT	NT	NT
Iron	61	46.1	NT	NT	NT
Magnesium	104	55.6 U	NT	NT	NT
Potassium	56 U	60.7	NT	NT	NT
Sodium	111 U	409	NT	NT	NT
Zinc	22	13.5	NT	NT	NT
Dissolved Metals (µg/L)					
Aluminum	NT	121	NT	NT	NT
Calcium	NT	212	NT	NT	NT
Chromium	NT	29.5	NT	NT	NT
Iron	NT	223	NT	NT	NT
Nickel	NT	16.7	NT	NT	NT
Potassium	NT	78.4	NT	NT	NT
Sodium	NT	484	NT	NT	NT
Zinc	NT	23.6	NT	NT	NT

Notes:

1. Only analytes with detections are shown in the table.
2. PCBs = polychlorinated biphenyls
3. ug/L = micrograms per liter
4. NT = not tested
5. ND = not detected

Qualifiers:

J = Analyte detected above the Method Detection Limit (MDL) but blew the Reporting Limit (RL); therefore, result is an estimated concentration.
U = Analyte was analyzed for but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
B = Analyte was found in the analysis batch blank.

APPENDIX A

PRELIMINARY DEVELOPMENT AND SUPPORT-OF-EXCAVATION PLANS

1LS - 111 LEROY STREET



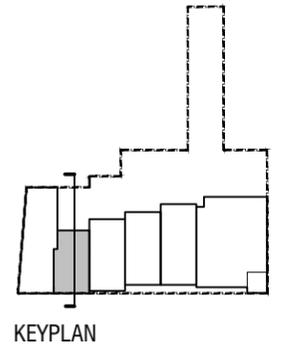
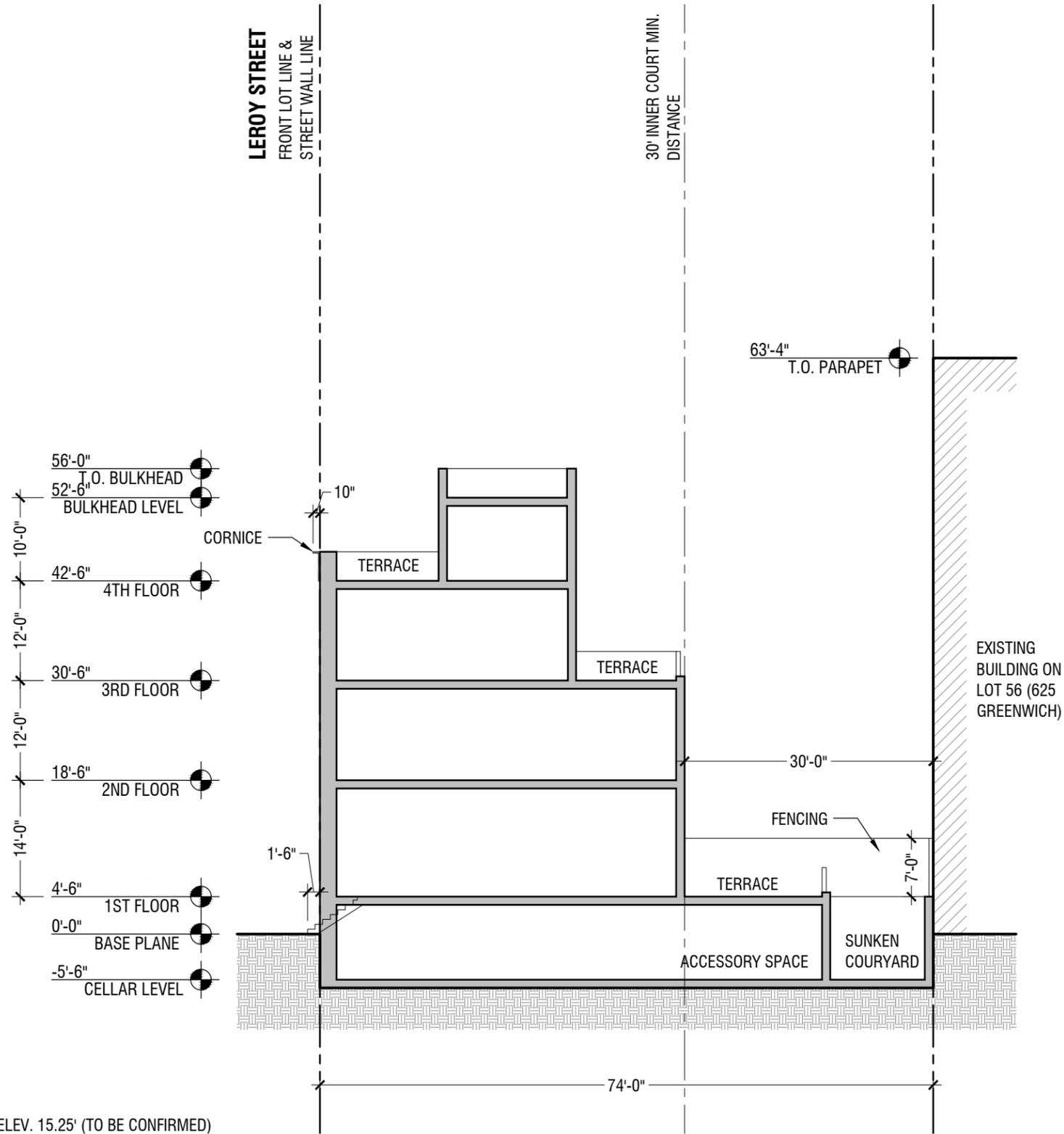
MORTON STREET (65' WIDE)



SCALE: 1" = 1/32"



NOTE: ALL HEIGHT ARE MEASURED FROM BASE PLANE, ELEV. 15.25' (TO BE CONFIRMED)



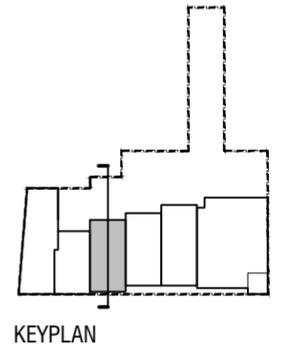
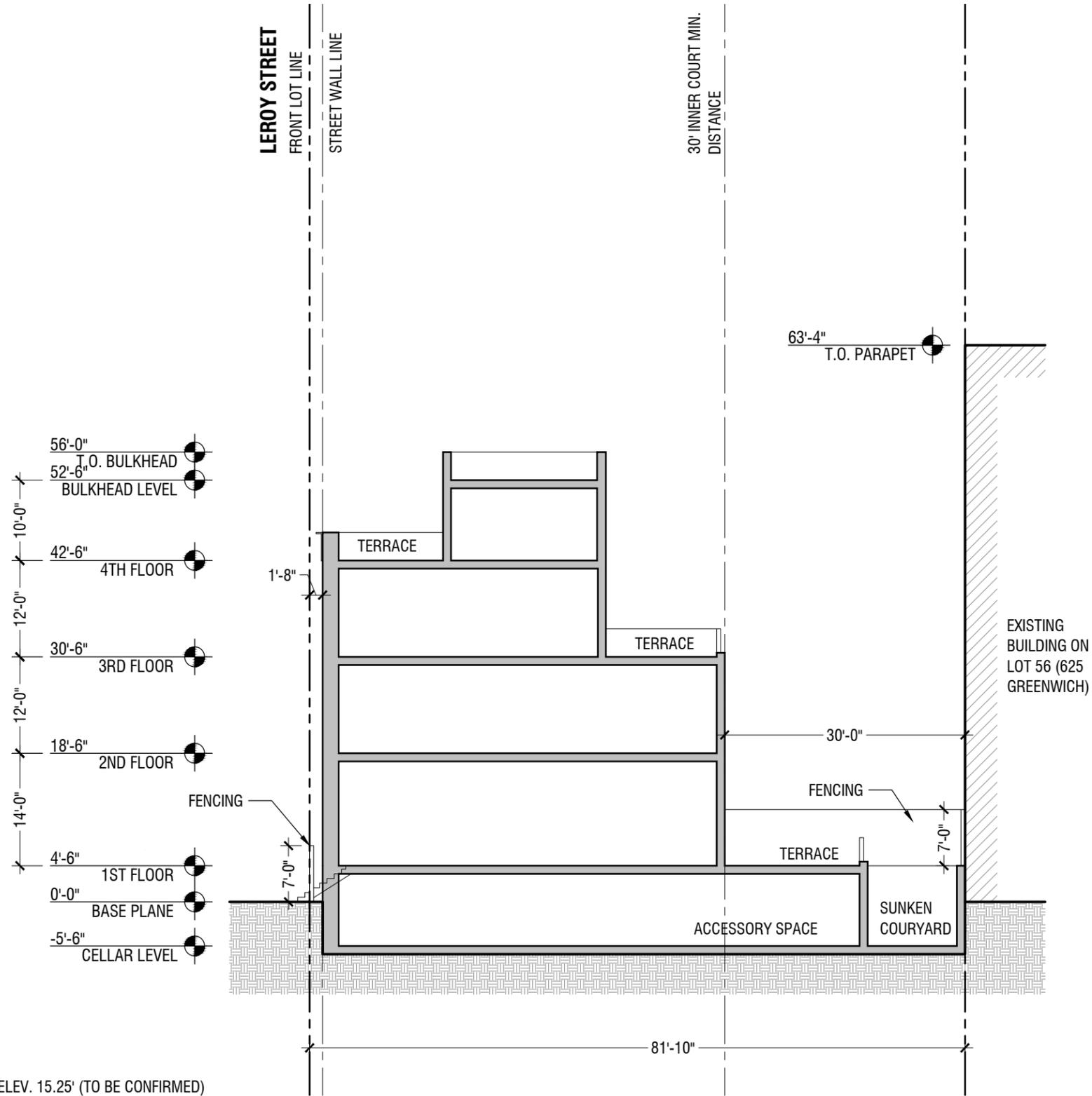
SCALE: 1" = 1/16"



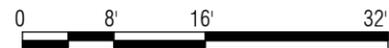
NOTE: ALL HEIGHT ARE MEASURED FROM BASE PLANE, ELEV. 15.25' (TO BE CONFIRMED)

TOWNHOUSE 2

JUNE 30, 2015
1LS - 111 LEROY STREET



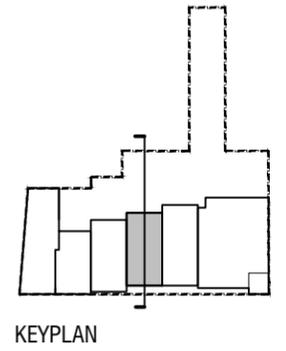
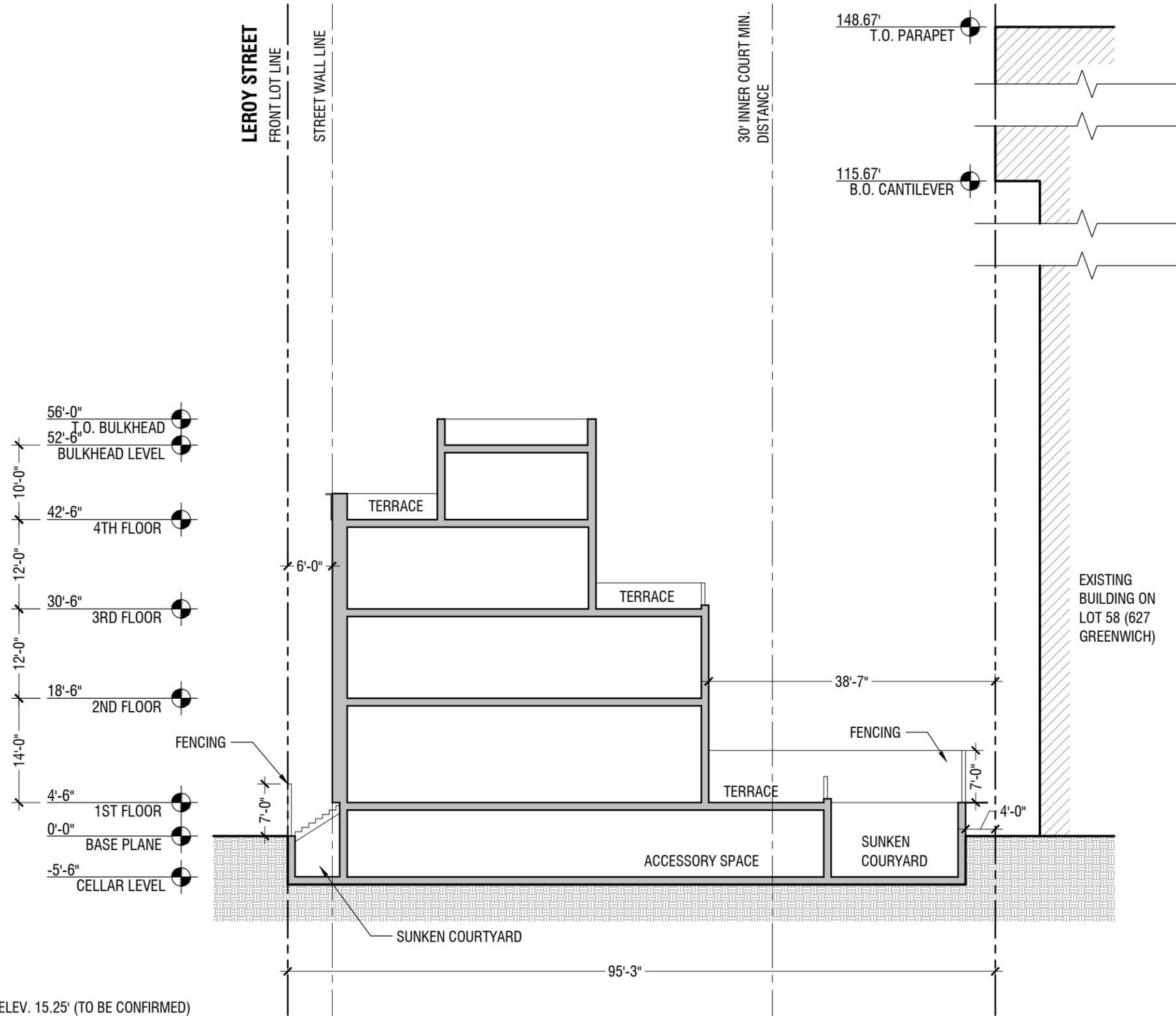
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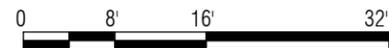
NOTE: ALL HEIGHT ARE MEASURED FROM BASE PLANE, ELEV. 15.25' (TO BE CONFIRMED)

TOWNHOUSE 3

JUNE 30, 2015
1LS - 111 LEROY STREET



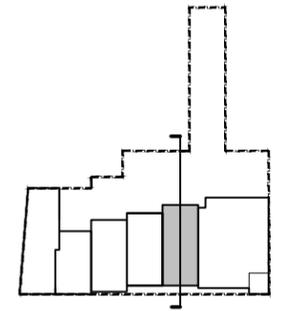
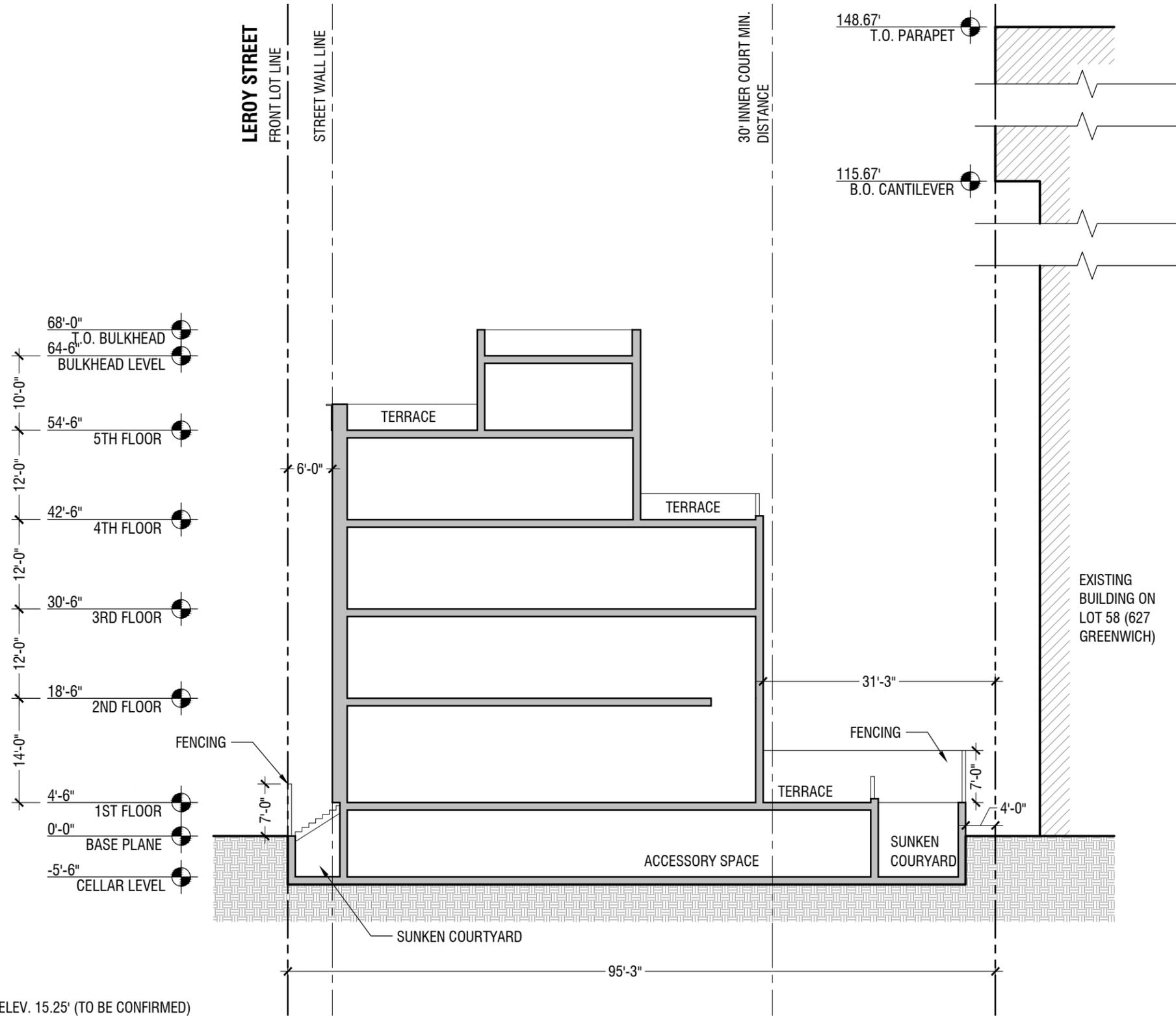
SCALE: 1" = 1/16"



NOTE: ALL HEIGHT ARE MEASURED FROM BASE PLANE, ELEV. 15.25' (TO BE CONFIRMED)

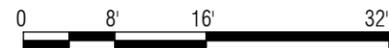
TOWNHOUSE 4

JUNE 30, 2015
 1LS - 111 LEROY STREET



KEYPLAN

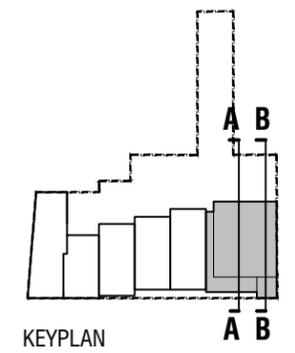
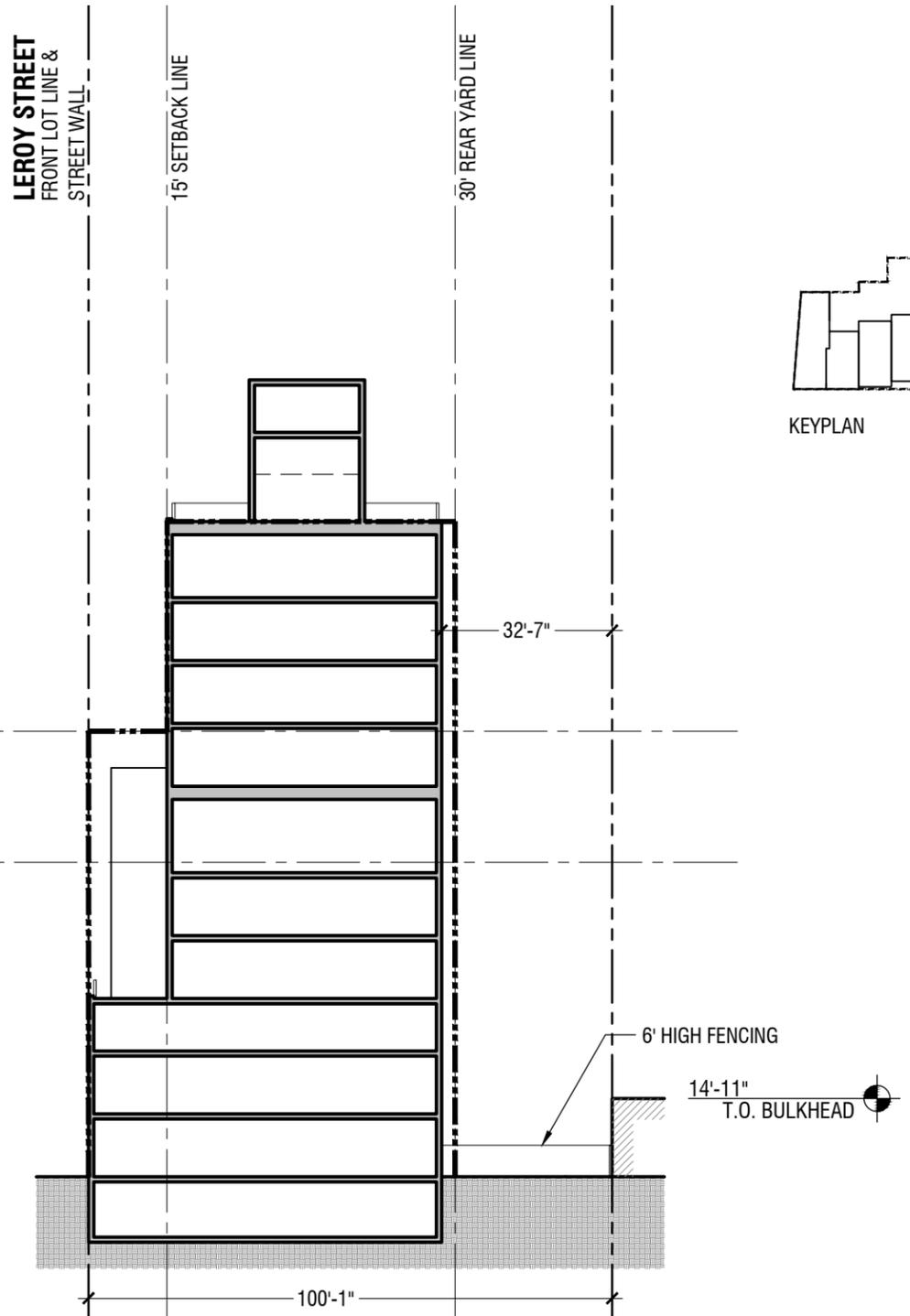
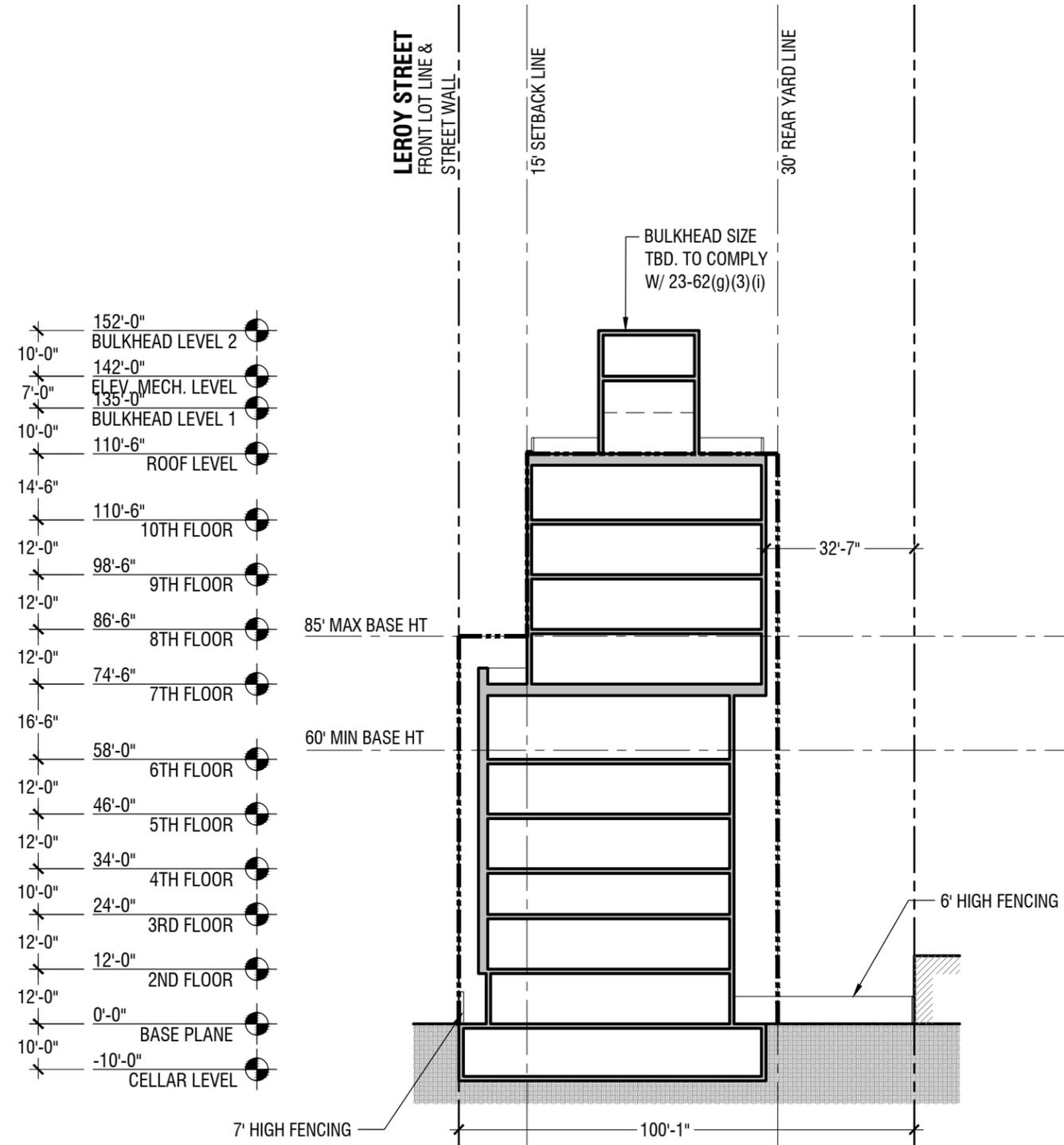
SCALE: 1" = 1/16"



NOTE: ALL HEIGHT ARE MEASURED FROM BASE PLANE, ELEV. 15.25' (TO BE CONFIRMED)

TOWNHOUSE 5

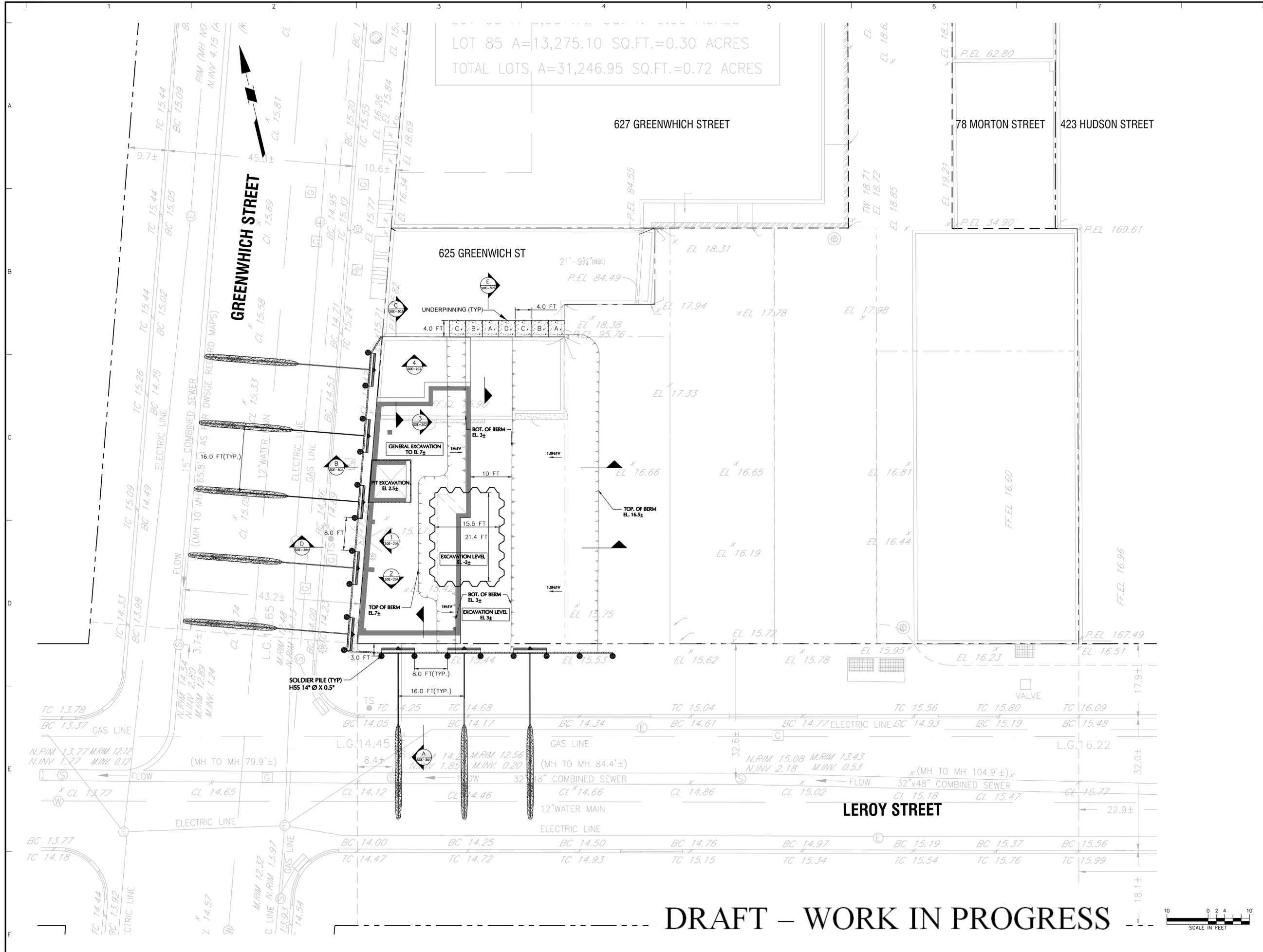
JUNE 30, 2015
1LS - 111 LEROY STREET



SCALE: 1" = 1/32"



NOTE: ALL HEIGHT ARE MEASURED FROM BASE PLANE, ELEV. 15.25' (TO BE CONFIRMED)



LOT 85 A=13,275.10 SQ.FT.=0.30 ACRES
 TOTAL LOTS A=31,246.95 SQ.FT.=0.72 ACRES

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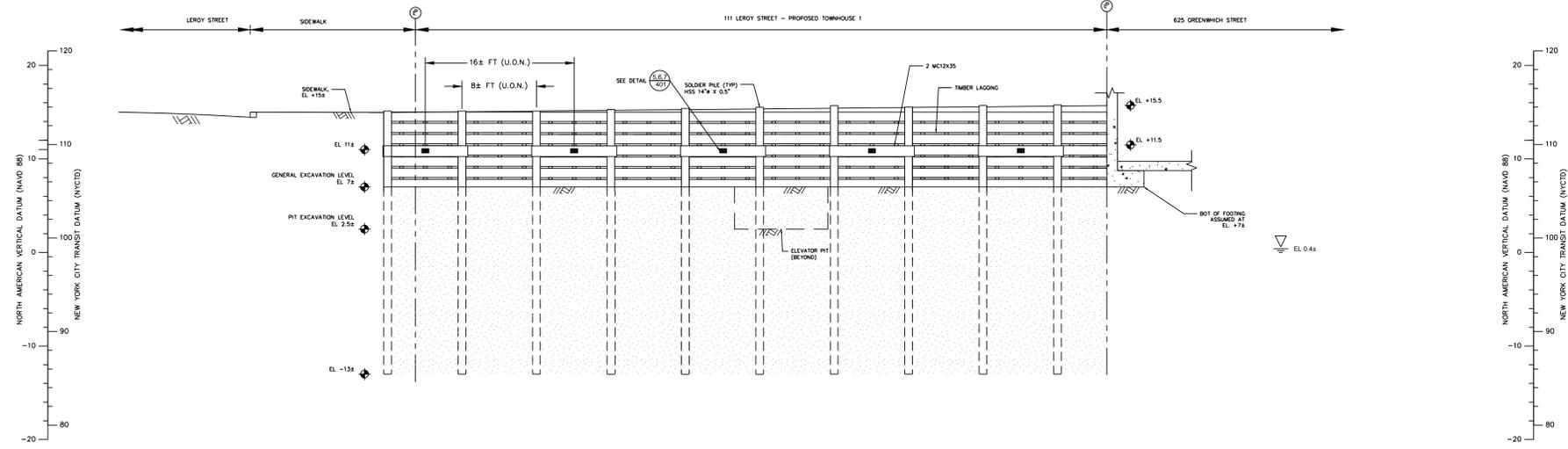
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Project
111 LEROY STREET
 BLOCK No. 602, LOT No. 83-85
 MANHATTAN
 NEW YORK NEW YORK

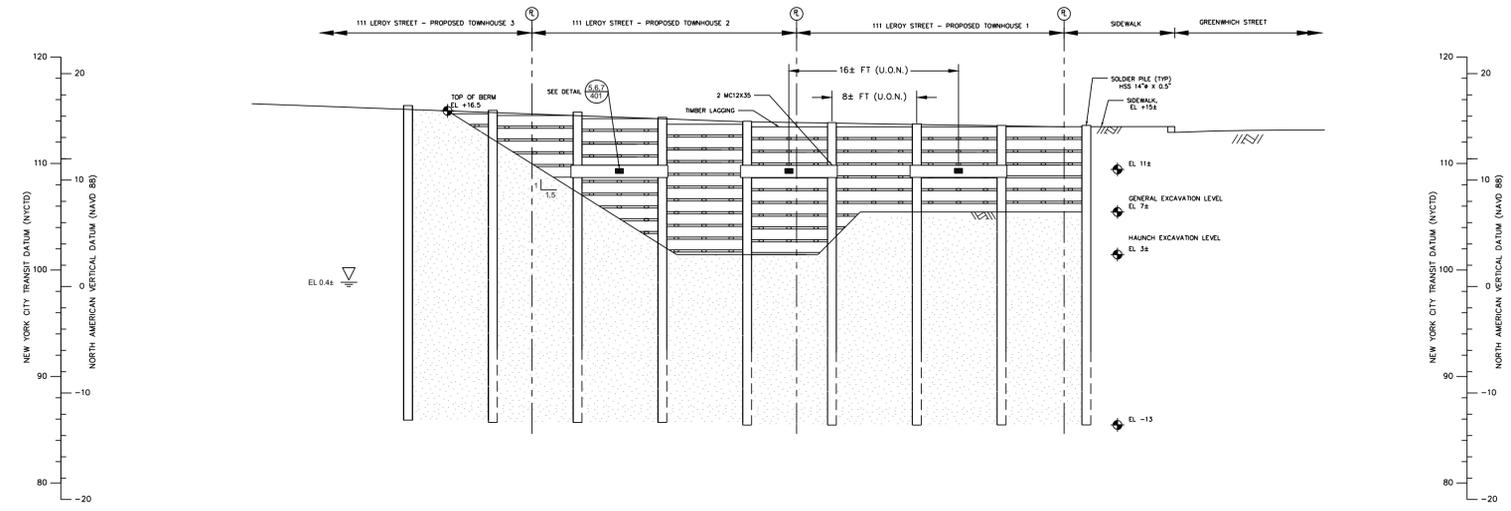
Drawing Title
SUPPORT OF EXCAVATION PLAN

Project No. 170370001	Drawing No. SOE-101
Date 12/23/2015	
Scale 1"=10'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 2 of 11

PROJECT NO. # SUBMISSION DATE: X LANGAN



① ELEVATION - WEST
SCALE : 1/8" = 1'



② ELEVATION - SOUTH
SCALE : 1/8" = 1'

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111 LEROY STREET

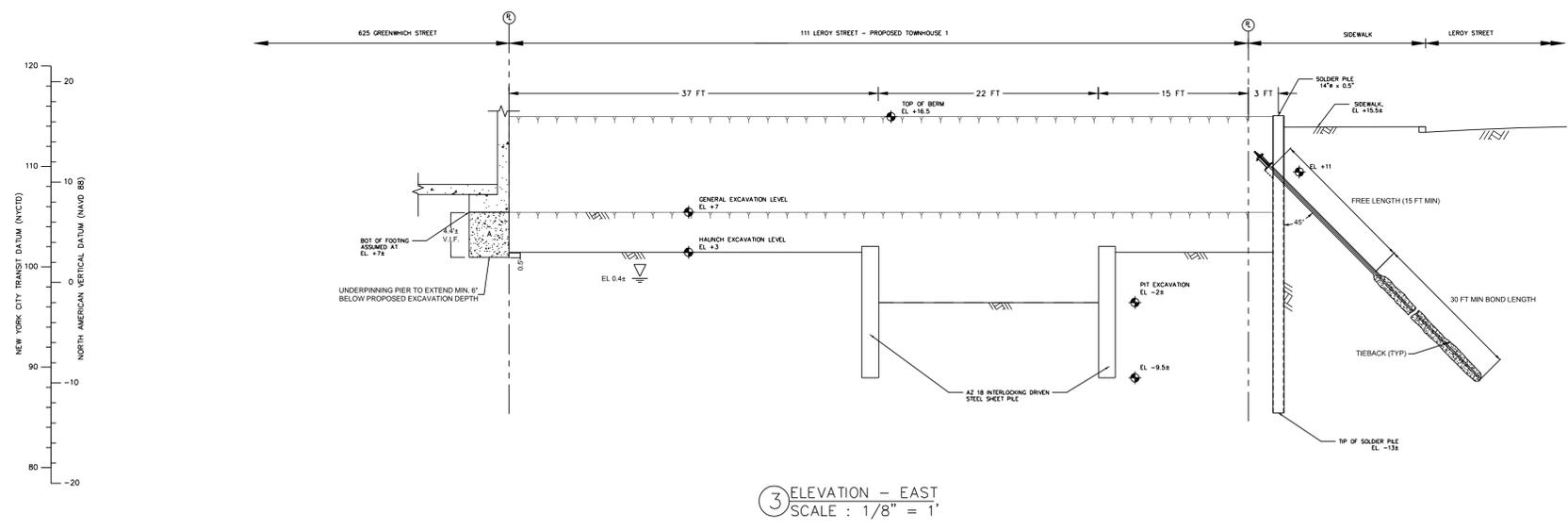
BLOCK No. 602, LOT No.83-85
MANHATTAN

NEW YORK NEW YORK

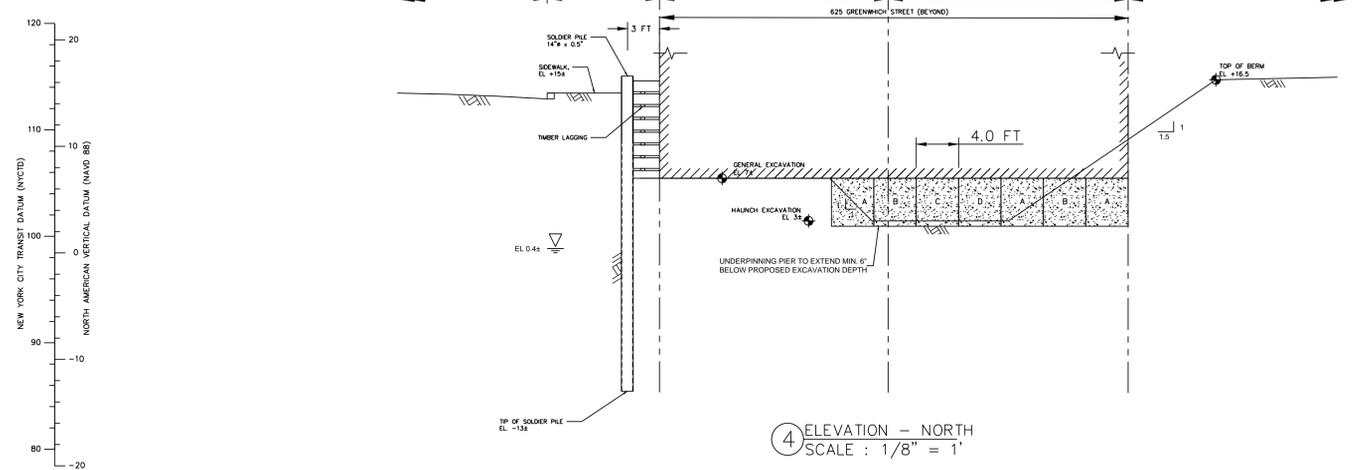
Drawing Title

ELEVATIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-201
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 3 of 11



3 ELEVATION - EAST
SCALE : 1/8" = 1'



4 ELEVATION - NORTH
SCALE : 1/8" = 1'

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BLOCK No. 602, LOT No.83-85
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NEW YORK NEW YORK

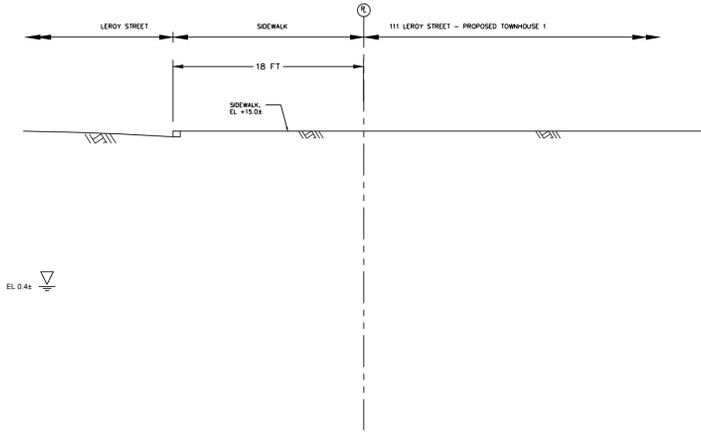
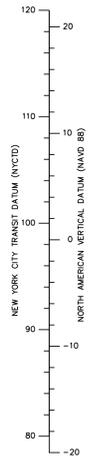
Drawing Title

ELEVATIONS

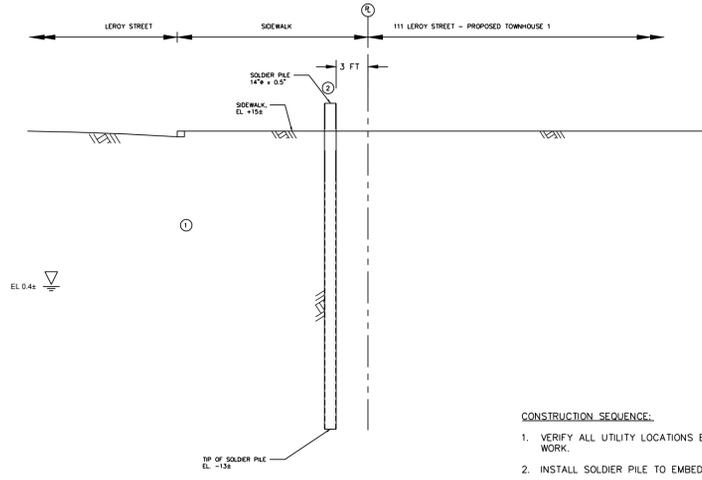
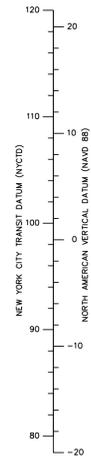
Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-202
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 4 of 11

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A B C D E F

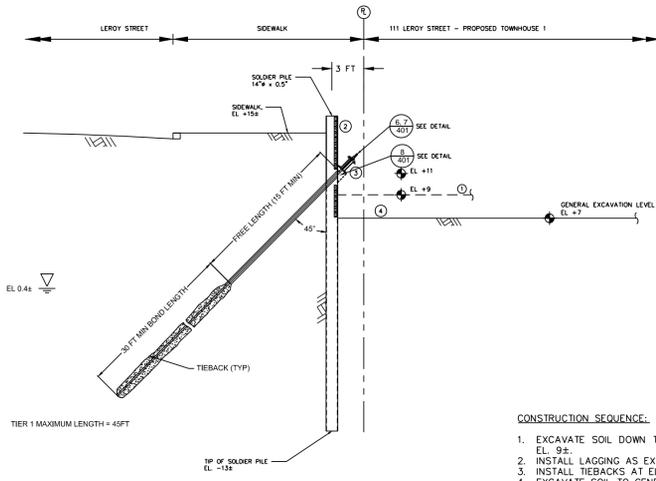
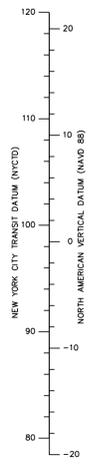


SECTION A - EXISTING CONDITIONS



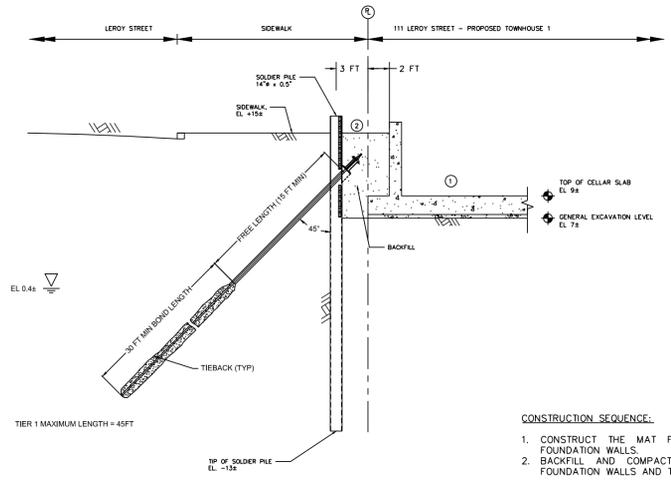
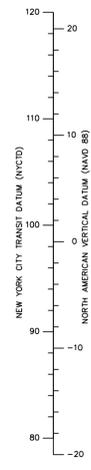
SECTION A - STAGE 1

- CONSTRUCTION SEQUENCE:**
1. VERIFY ALL UTILITY LOCATIONS BEFORE STARTING WORK.
 2. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH.



SECTION A - STAGE 2

- CONSTRUCTION SEQUENCE:**
1. EXCAVATE SOIL DOWN TO TEMPORARY LEVEL AT EL. 9±.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. INSTALL TIEBACKS AT EL. 11±.
 4. EXCAVATE SOIL TO GENERAL EXCAVATION LEVEL.



SECTION A - STAGE 2

- CONSTRUCTION SEQUENCE:**
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.
 2. BACKFILL AND COMPACT BETWEEN THE NEW FOUNDATION WALLS AND THE SOLDIER PILES.

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111 LEROY STREET

BLOCK No. 602, LOT No. 83-85
MANHATTAN

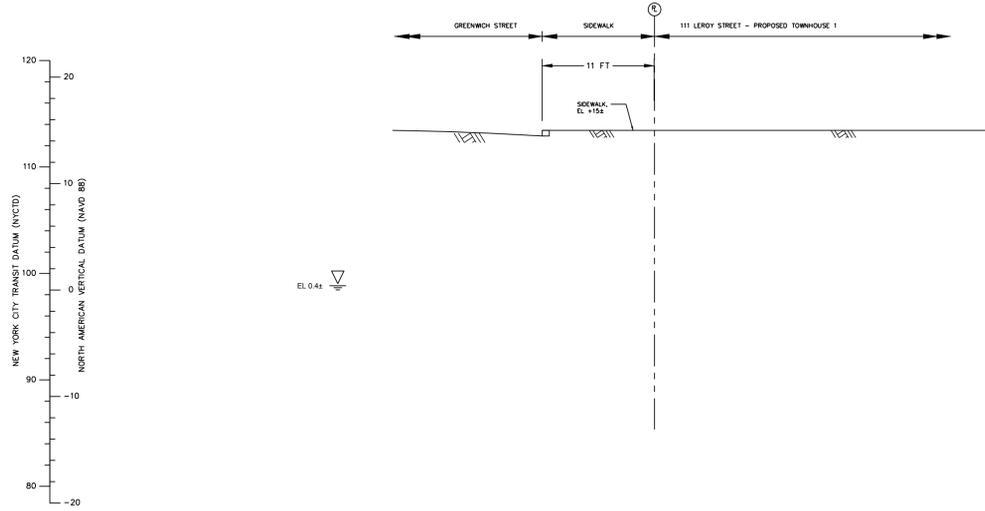
NEW YORK NEW YORK

Drawing Title

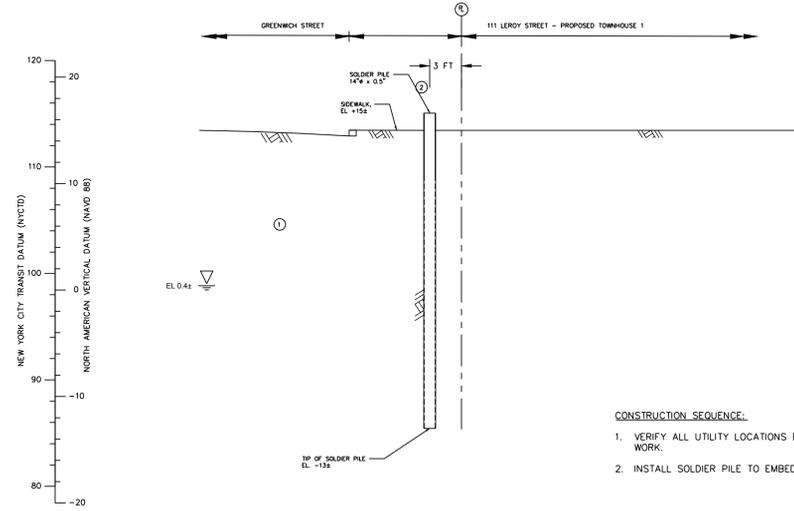
SECTIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-301
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 5 of 11

DRAFT - WORK IN PROGRESS

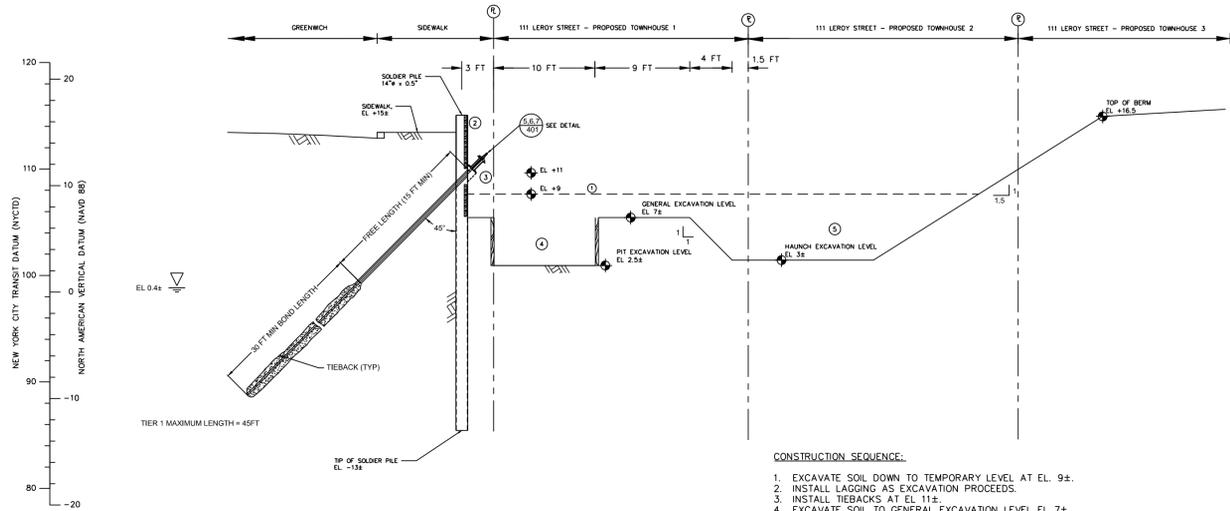


SECTION B - EXISTING CONDITIONS



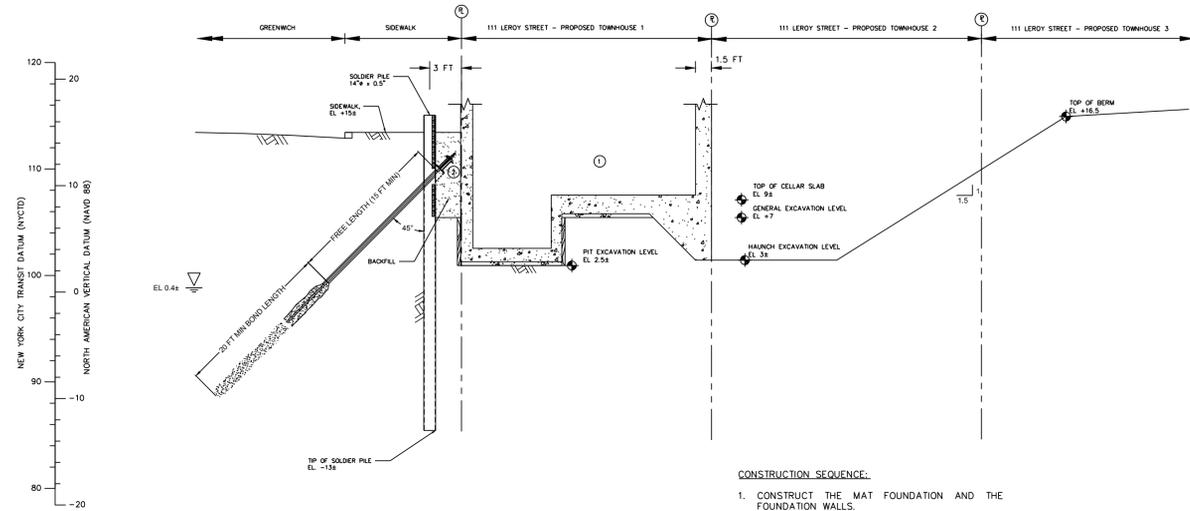
- CONSTRUCTION SEQUENCE:
1. VERIFY ALL UTILITY LOCATIONS BEFORE STARTING WORK.
 2. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH.

SECTION B - STAGE 1



- CONSTRUCTION SEQUENCE:
1. EXCAVATE SOIL DOWN TO TEMPORARY LEVEL AT EL. 9±.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. INSTALL TIEBACKS AT EL. 11±.
 4. EXCAVATE SOIL TO GENERAL EXCAVATION LEVEL EL. 7±.
 5. INSTALL SHEETED PIT AND EXCAVATE TO PIT ELEVATION EL. 2.5±.
 6. EXCAVATE SOIL TO HAUNCH LEVEL EL. 3± AS SHOWN.

SECTION B - STAGE 2



- CONSTRUCTION SEQUENCE:
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.
 2. BACKFILL AND COMPACT BETWEEN THE NEW FOUNDATION WALLS AND THE SOLDIER PILES.

SECTION B - STAGE 3

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111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

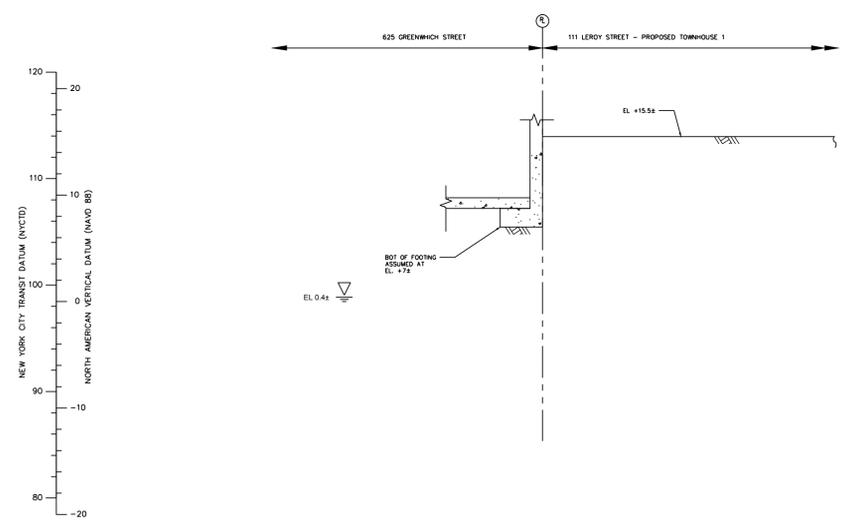
NEW YORK NEW YORK

Drawing Title

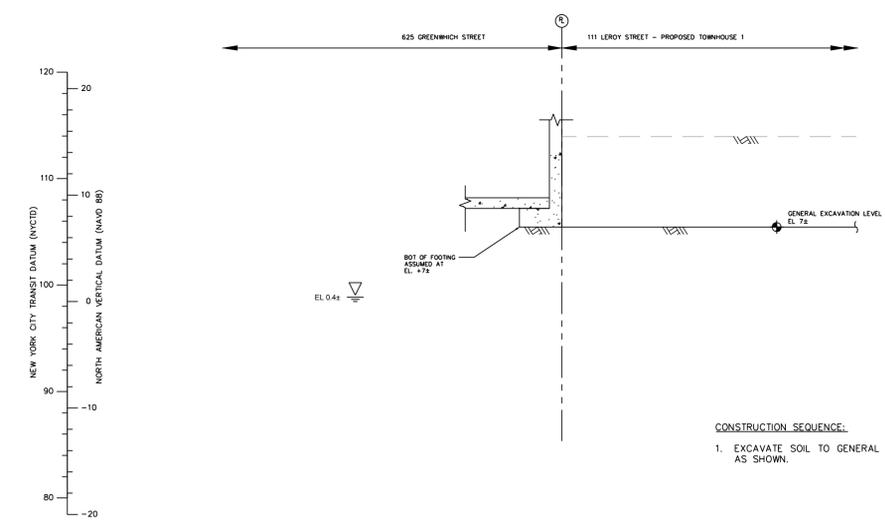
SECTIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-302
Scale 1/8"=1'	
Drawn By RK	
Checked By JMD	Submission Date 12/23/2015
Sheet 6 of 11	

DRAFT - WORK IN PROGRESS

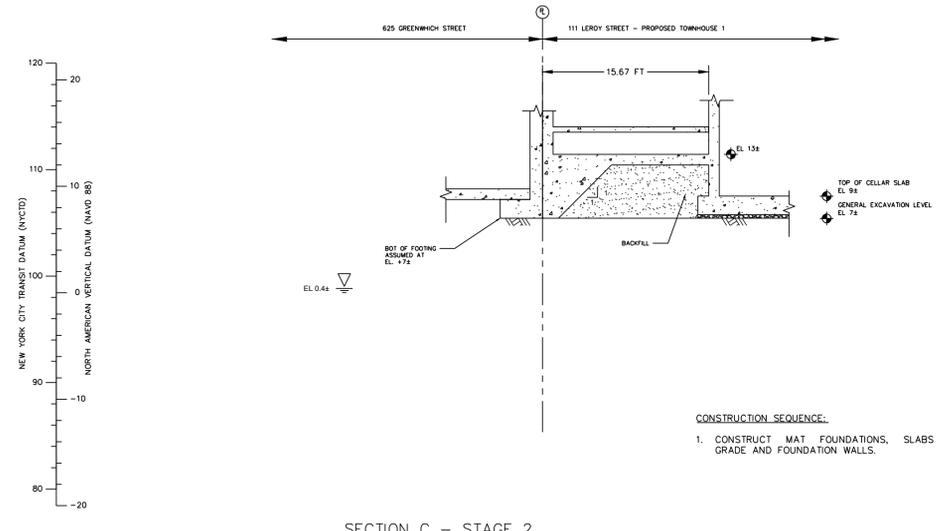


SECTION C - EXISTING CONDITIONS



SECTION C - STAGE 1

CONSTRUCTION SEQUENCE:
1. EXCAVATE SOIL TO GENERAL EXCAVATION LEVEL AS SHOWN.



SECTION C - STAGE 2

CONSTRUCTION SEQUENCE:
1. CONSTRUCT MAT FOUNDATIONS, SLABS ON GRADE AND FOUNDATION WALLS.

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111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

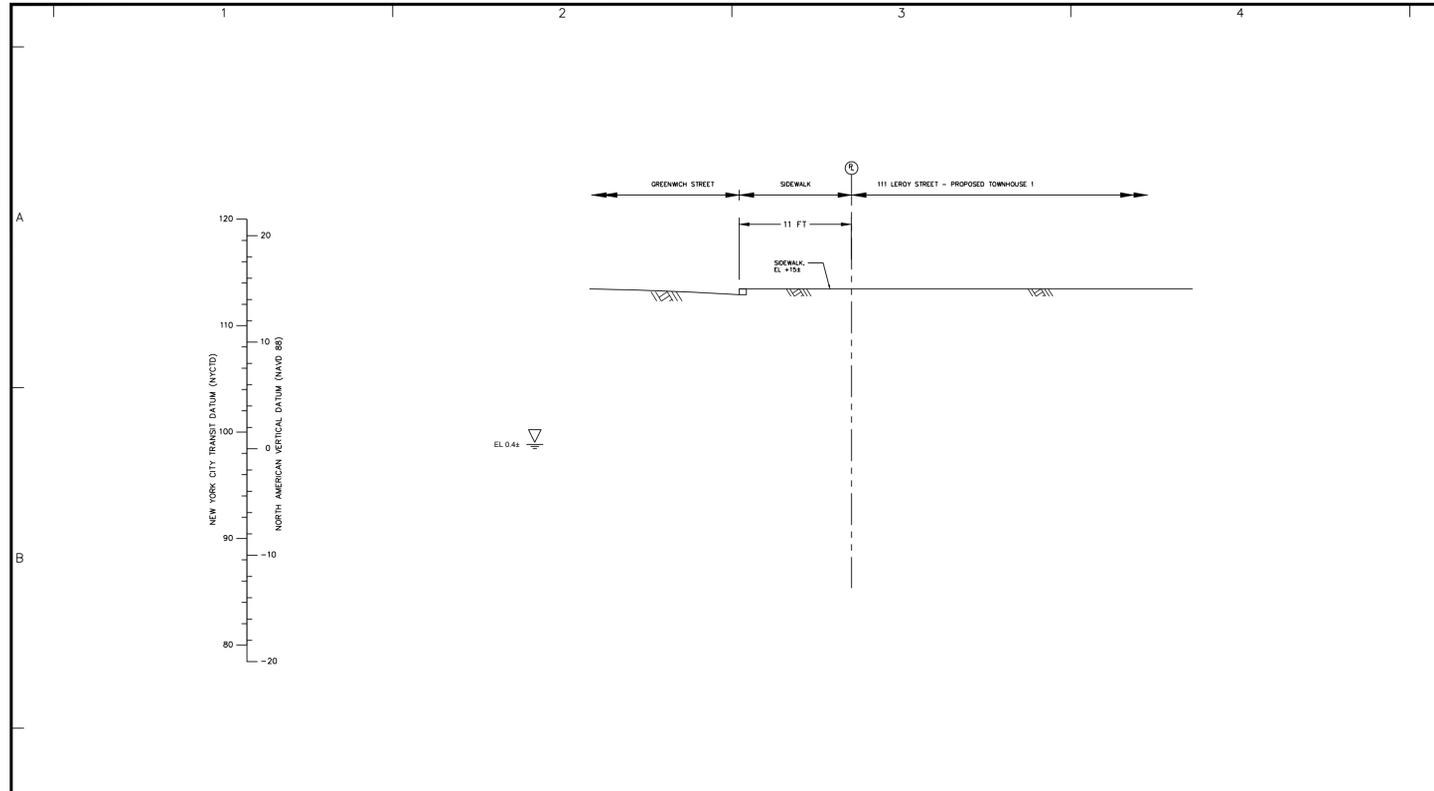
NEW YORK NEW YORK

Drawing Title

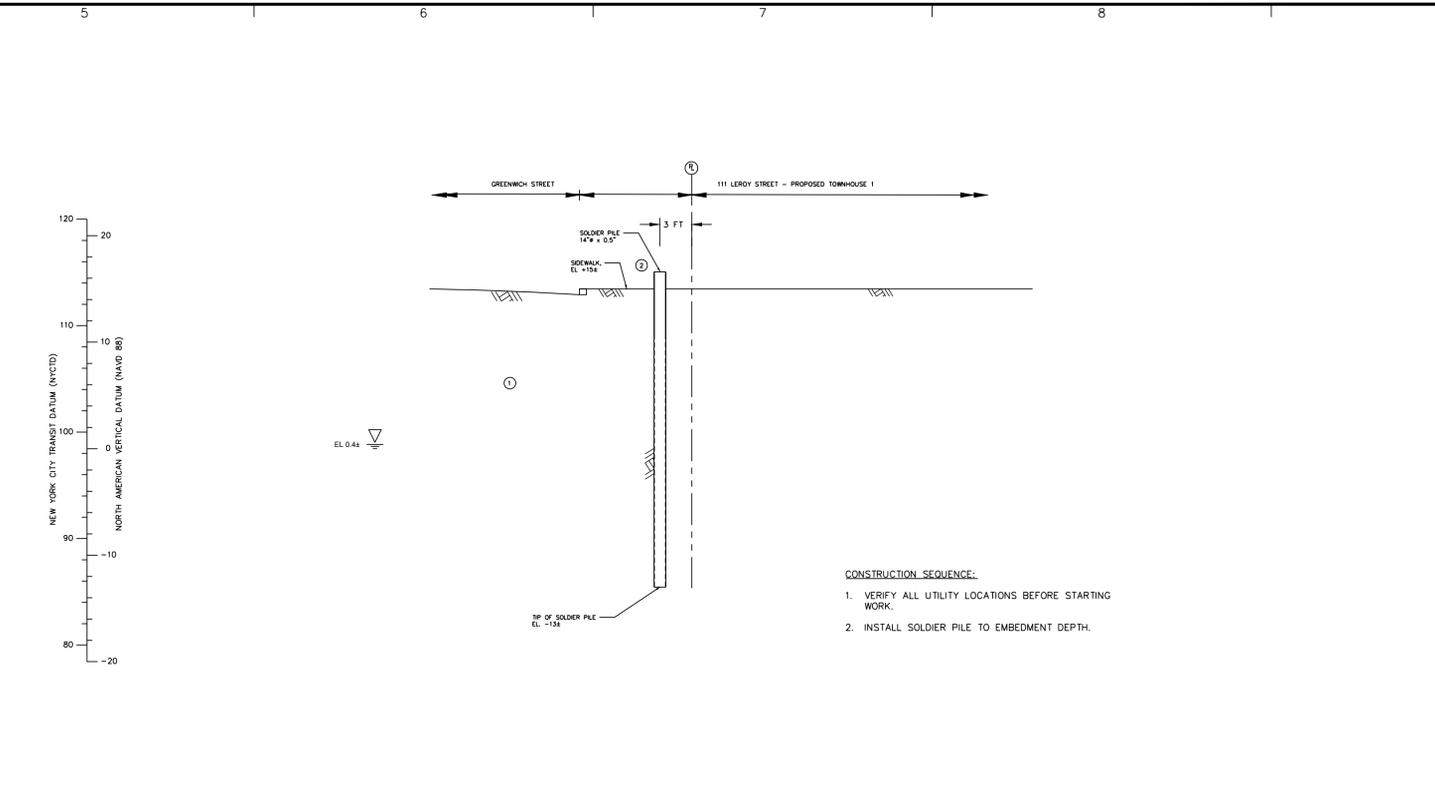
SECTIONS

Project No.	170370001	Drawing No.	SOE-303
Date	12/23/2015		
Scale	1/8"=1'		
Drawn By	RK	Checked By	
Submission Date	12/23/2015	Sheet	7 of 11

DRAFT - WORK IN PROGRESS

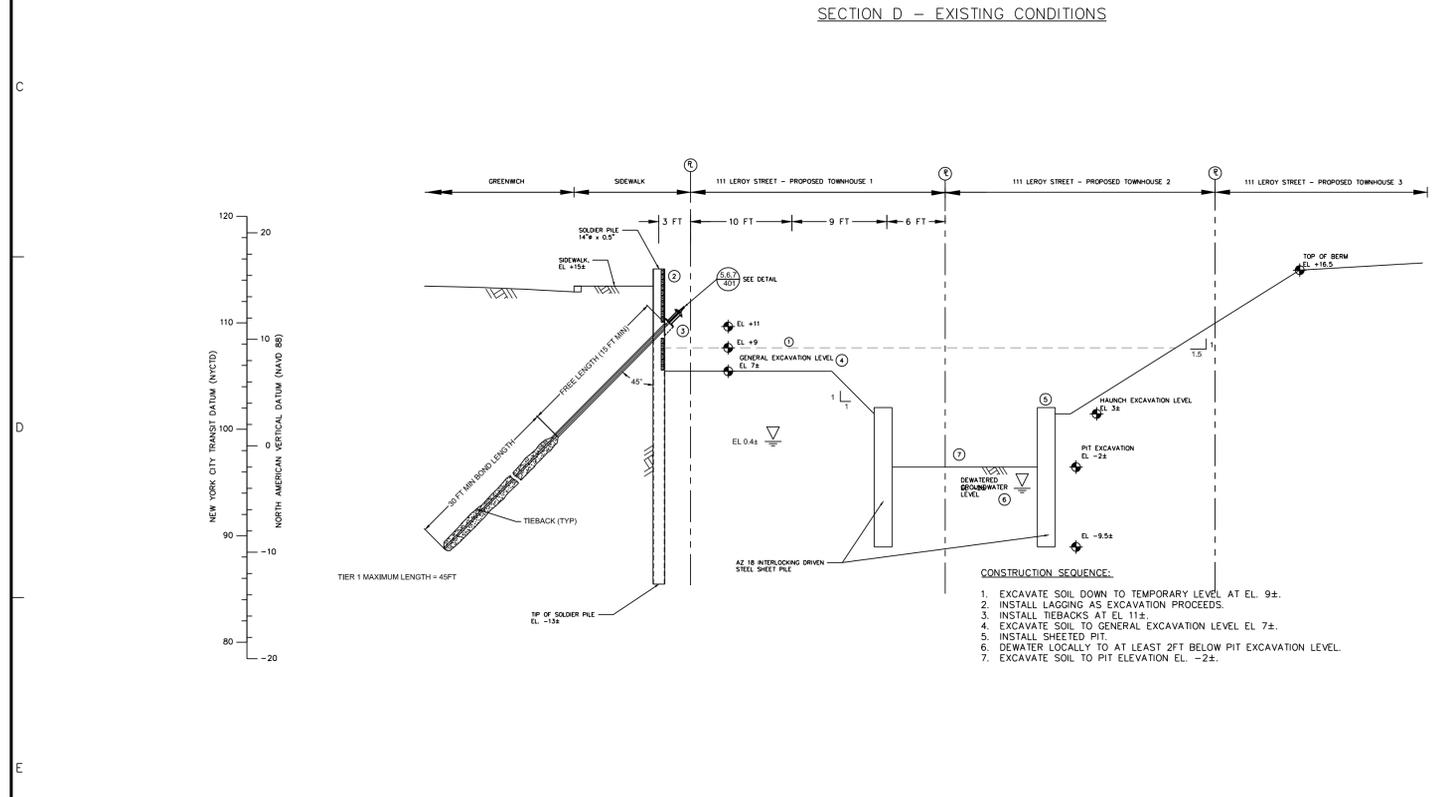


SECTION D - EXISTING CONDITIONS



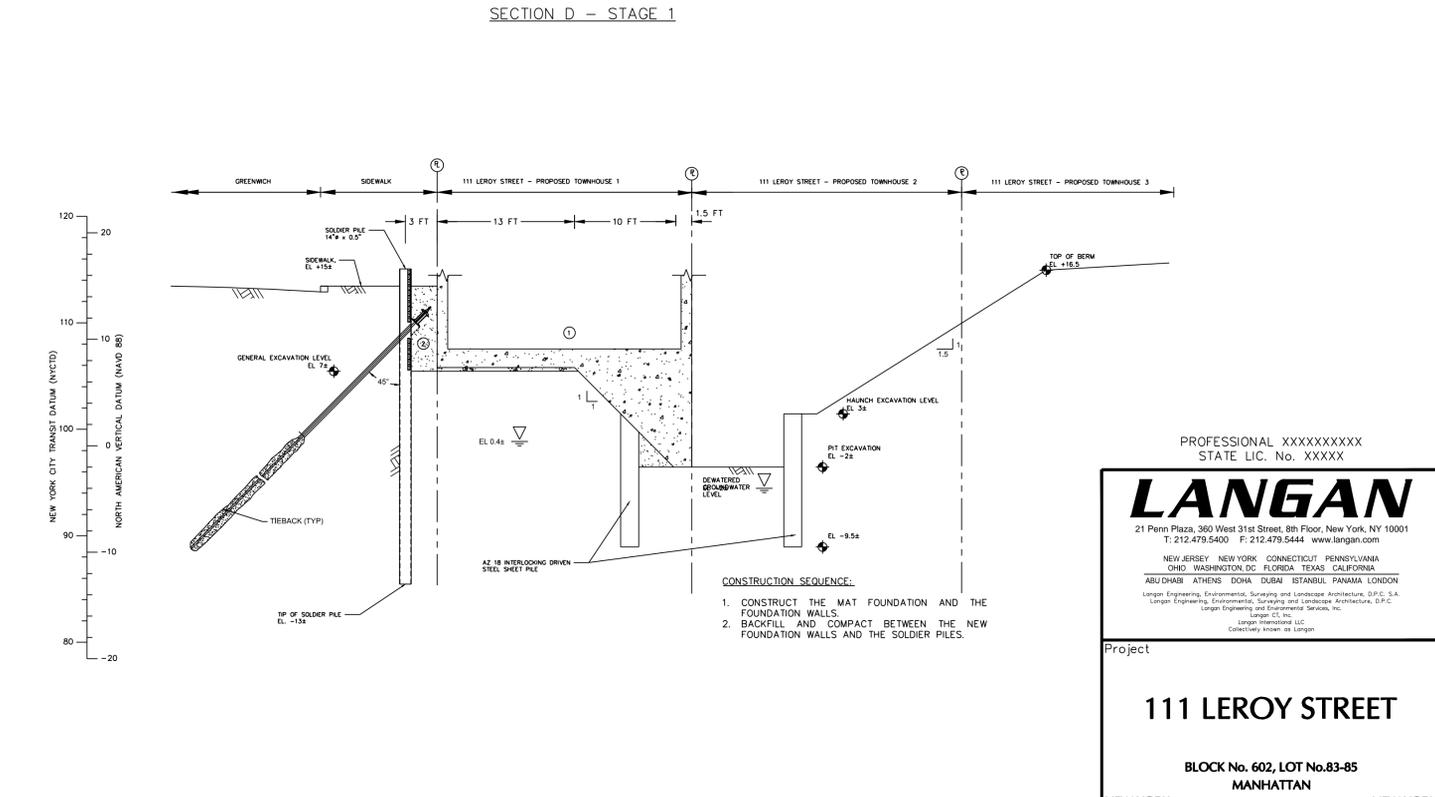
SECTION D - STAGE 1

- CONSTRUCTION SEQUENCE:
1. VERIFY ALL UTILITY LOCATIONS BEFORE STARTING WORK.
 2. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH.



SECTION D - STAGE 2

- CONSTRUCTION SEQUENCE:
1. EXCAVATE SOIL DOWN TO TEMPORARY LEVEL AT EL. 9±.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. INSTALL TIEBACKS AT EL. 11±.
 4. EXCAVATE SOIL TO GENERAL EXCAVATION LEVEL EL. 7±.
 5. INSTALL SHEETED PIT.
 6. DEWATER LOCALLY TO AT LEAST 2FT BELOW PIT EXCAVATION LEVEL.
 7. EXCAVATE SOIL TO PIT ELEVATION EL. -2±.



SECTION D - STAGE 3

- CONSTRUCTION SEQUENCE:
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.
 2. BACKFILL AND COMPACT BETWEEN THE NEW FOUNDATION WALLS AND THE SOLDIER PILES.

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STATE LIC. No. XXXXX

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MANHATTAN

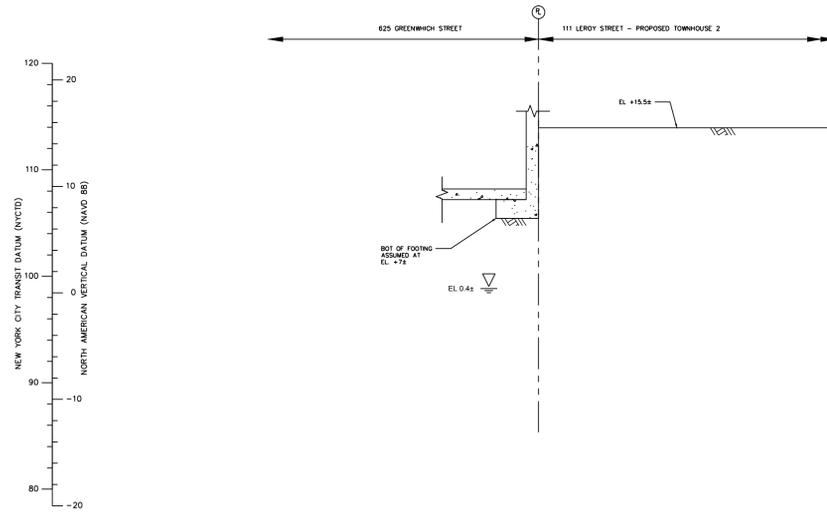
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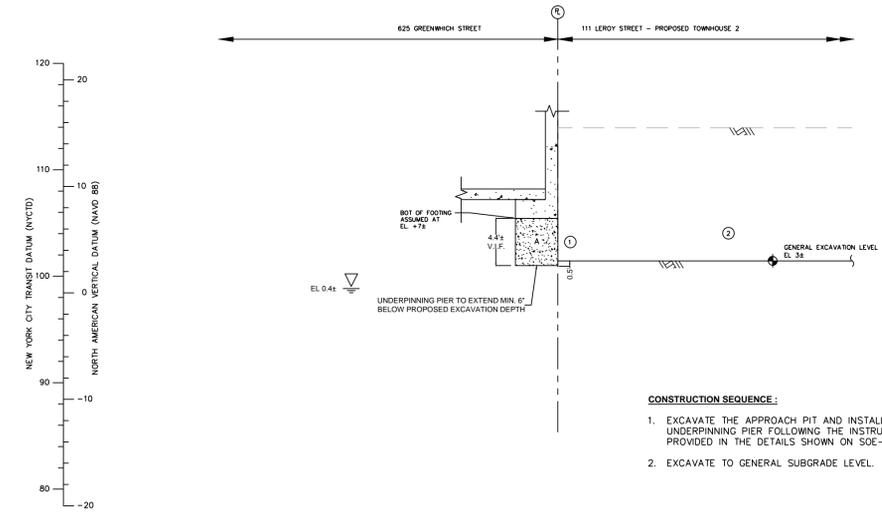
SECTIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-304
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 8 of 11

DRAFT - WORK IN PROGRESS



SECTION E - EXISTING CONDITIONS



CONSTRUCTION SEQUENCE:

1. EXCAVATE THE APPROACH PIT AND INSTALL THE UNDERPINNING PIER FOLLOWING THE INSTRUCTIONS PROVIDED IN THE DETAILS SHOWN ON SOE-202.
2. EXCAVATE TO GENERAL SUBGRADE LEVEL.

SECTION E - STAGE 1

DRAFT - WORK IN PROGRESS

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111 LEROY STREET

**BLOCK No. 602, LOT No.83-85
MANHATTAN**

NEW YORK NEW YORK

Drawing Title

SECTIONS

Project No.

170370001

Date

12/23/2015

Scale

1/8"=1'

Drawn By

RK

Checked By

JMD

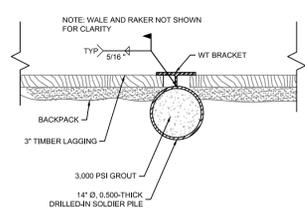
Submission Date

12/23/2015

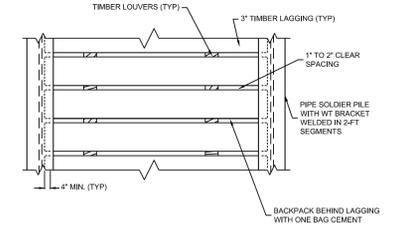
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SOE-305

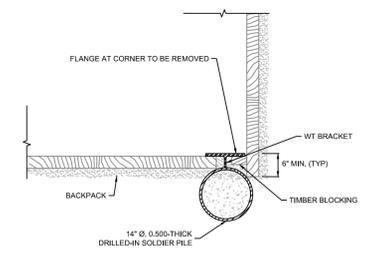
Sheet 9 of 11



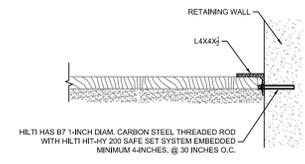
① SOLDIER PILE TO LAGGING CONNECTION
SCALE: N.T.S.



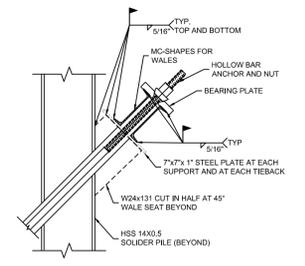
② TYPICAL LAGGING INSTALLATION
SCALE: N.T.S.



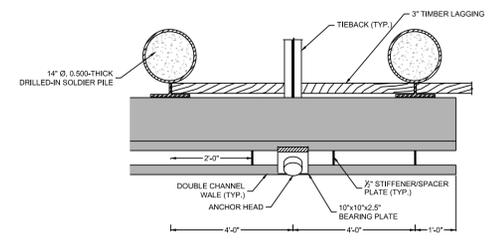
③ CORNER SOLDIER PILE DETAIL
SCALE: N.T.S.



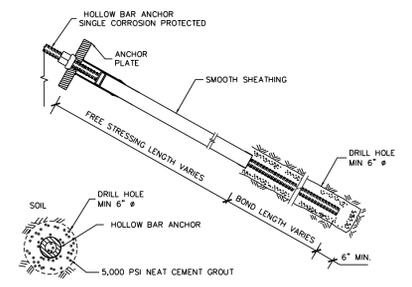
④ LAGGING SUPPORT AT STRUCTURE
SCALE: N.T.S.



⑤ TIEBACK SUPPORT DETAIL (SECTION)
SCALE: N.T.S.

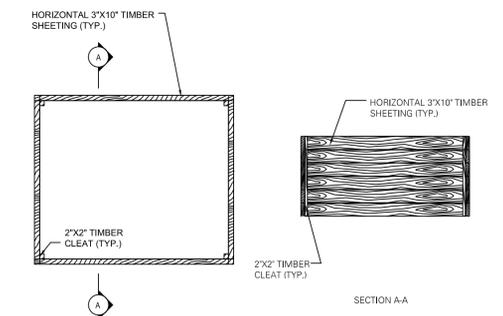


⑥ TIEBACK SUPPORT DETAIL (PLAN)
SCALE: N.T.S.



TIEBACK TYPE	WALL	DESIGN LOAD	LOCK-OFF	WALE	ANGLE
ANP H1200-64	WEST	85 KIP	85 KIP	(2) MC12x35	45°
ANP H1200-64	SOUTH	85 KIP	85 KIP	(2) MC12x35	45°

⑦ TIEBACK DETAIL
SCALE: N.T.S.



⑧ TIMBER LAGGING/SHEATHING
SCALE: N.T.S.

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Langan International LLC
Collectively known as Langan

Project

111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

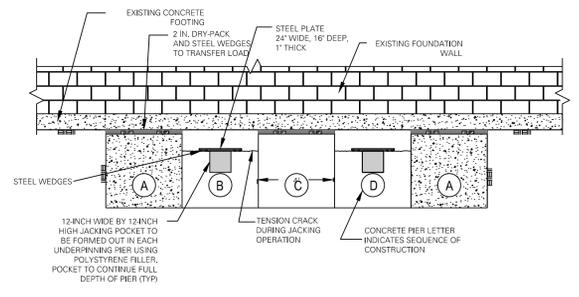
NEW YORK NEW YORK

Drawing Title

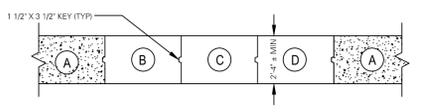
DETAILS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-401
Scale N.T.S.	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 10 of 11

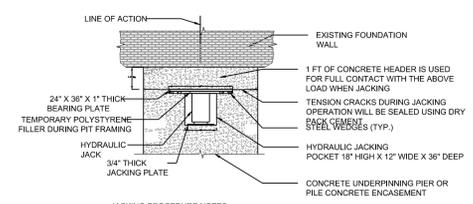
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9 UNDERPINNING DETAILS – ELEVATION
SCALE: N.T.S.

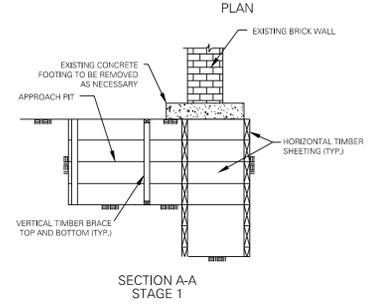
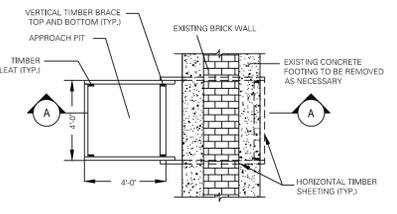


10 UNDERPINNING DETAILS – PLAN
SCALE: N.T.S.



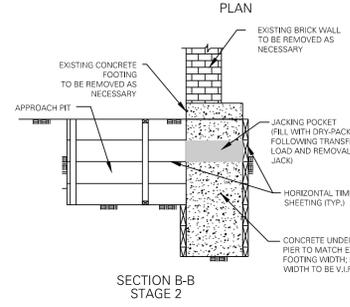
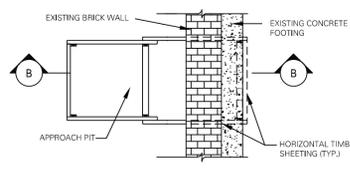
- JACKING PROCEDURE NOTES**
1. INSTALL FORMWORK FOR JACKING POCKET BELOW THE BOTTOM OF EXISTING FOOTING PER DETAILS SHOWN.
 2. INSTALL POLYSTYRENE FILLER AND STEEL PLATE.
 3. PLACE UNDERPINNING CONCRETE.
 4. REMOVE JACKING POCKET FRAMING.
 5. INSERT HYDRAULIC JACK, AND JACK TO LOAD PROVIDED BY THE GEOTECHNICAL ENGINEER. CONCRETE UNDERPINNING SHOULD CRACK IN TENSION ADJACENT TO THE JACKING POCKET AS ILLUSTRATED IN DETAIL.
 6. MONITOR OPTICAL SURVEY TARGETS, INSTALLED ON THE WALL AND THE UNDERPINNING PIERS, DURING JACKING OPERATION TO ENSURE THE PROPER TRANSFER OF THE LOADS TO THE UNDERPINNING PIERS. STOP THE JACKING OPERATION IF ANY MOVEMENT IS DETECTED ON THE WALL.
 7. WEDGE AND DRY-PACK TO TRANSFER LOADS AS SHOWN.
 8. REMOVE JACK AND FILL REMAINING ANNULUS OF JACKING POCKET WITH DRY-PACK.

11 TYPICAL HYDRAULIC JACK POCKET DETAIL
SCALE: N.T.S.



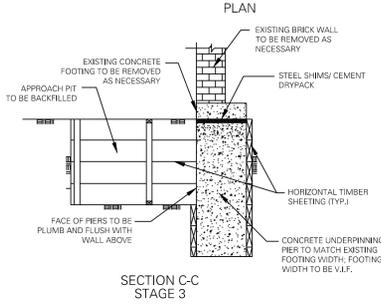
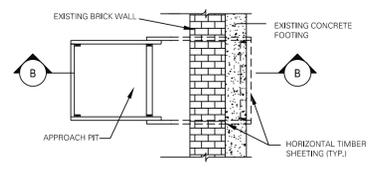
SECTION A-A STAGE 1

- STAGE 1:**
1. EXCAVATE APPROACH PIT FOR A MINIMUM CLEAR DISTANCE BETWEEN SIMULTANEOUS PITS SHALL BE 12 FT.
 2. CLEAN UNDERPINNING SUBGRADE AND RECOMPACT DISTURBED SOIL WITH MECHANICAL TAMPERS. LOSS OF GROUND SHALL BE KEPT TO A MINIMUM BY BACKFILLING BEHIND THE BOARDS WHERE AND WHEN POSSIBLE WITH SALT HAY OR SAND/CEMENT GROUT PUMPED INTO THE VOIDS.



SECTION B-B STAGE 2

- STAGE 2:**
1. POUR CONCRETE UNDERPINNING PIER BELOW FOUNDATION. PROVIDE JACKING POCKET AS SHOWN IN DETAIL 1005E-02.
 2. AFTER CONCRETE ATTAINS 75% OF DESIGN STRENGTH, REFER TO STRUCTURAL DRAWINGS FOR DETAILS ON REMOVAL OF EXISTING FOUNDATION ELEMENTS.
 3. AFTER REMOVAL OF PORTIONS OF EXISTING FOUNDATION ELEMENTS, JACK PIT TO CREATE HORIZONTAL TENSION CRACK IN THE CONCRETE UNDERPINNING. TRANSFER LOADS TO UNDERPINNING BY MEANS OF STEEL PLATES AND STEEL WEDGES. AFTER THE BUILDING LOAD IS TRANSFERRED TO THE UNDERPINNING PIER, THE SPACE SHALL BE FILLED WITH NON-SHRENK GROUT OR DRY-PACK MORTAR. DRY-PACK TO BE ONE PART PORTLAND CEMENT AND THREE PARTS FINE SAND WITH JUST ENOUGH WATER FOR HYDRATION.
 4. REMOVE RING SHEETING AND BACKFILL APPROACH PIT.
 5. REPEAT STAGES 1 AND 2 FOR PITS B, C, THEN D.



SECTION C-C STAGE 3

- STAGE 3:**
1. REMOVE PORTION OF EXISTING FOOTING AND BRICK WALL AS NEEDED FOR ELEVATOR PIT INSTALLATION.
 2. REMOVE RING SHEETING AND BACKFILL APPROACH PIT.
- REPEAT STAGES 1 THROUGH 3 FOR PITS B, C, THEN D.

12 UNDERPINNING DETAILS – STAGING OF UNDERPINNING
SCALE: N.T.S.

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PROFESSIONAL XXXXXXXXX
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LANGAN

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GENERAL NOTES:

- BASE PLAN EXTRACTED FROM A SURVEY BY JOSEPH NICHOLETI ASSOCIATES DATED 07/29/2014.
- FOUNDATION BACKGROUND OBTAINED FROM DRAWING TITLED "FO0101.00 FOUNDATION PLAN" PREPARED BY SIMPSON GUMPERTZ & HEGER, DATED NOVEMBER 20,2015.
- ELEVATIONS ARE WITH RESPECT TO THE TRANSIT AUTHORITY (TA) DATUM AND NORTH AMERICAN VERTICAL DATUM (NAVD) 1988, WHICH IS 1.106 FT ABOVE MEAN SEA LEVEL AT SANDY HOOK, NJ ESTABLISHED BY U.S. COAST AND GEODETIC SURVEY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HIS WORK SUCH THAT NO DAMAGE OR ADVERSE IMPACT TO THE NEIGHBORING BUILDINGS AND STRUCTURES RESULT, AND FOR PERFORMING NEIGHBORING/BORDERING BUILDING AND STRUCTURE MONITORING DURING SOIL EXCAVATION AND EXCAVATION SUPPORT CONSTRUCTION TO KEEP HIMSELF CONTINUOUSLY INFORMED OF THEIR CONDITIONS.
- A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND RETAINED DIRECTLY BY THE OWNER SHALL PERFORM SPECIAL INSPECTION OF THE EXCAVATION SUPPORT WORK IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704.19 OF THE NYC BUILDING CODE.
- CONTRACTOR SHALL NOTIFY NYCD0B AND NEIGHBORING BUILDING OWNERS 24 TO 48 HOURS PER THE REQUIREMENTS OF THE LATEST NYC BUILDING CODE PRIOR TO COMMENCEMENT OF EXCAVATION WORK.
- CONTRACTOR SITE SAFETY AND SITE LOGISTICS ARE BEYOND THE SCOPE OF THESE DRAWINGS AND ARE NOT ADDRESSED HEREIN.
- ON-SITE SUBSURFACE CONDITIONS INDICATED ON THE DRAWINGS ARE INFERRED BASED ON OBSERVATIONS IN THE DRILLED BORINGS. THE ACTUAL SUBSURFACE CONDITIONS MAY VARY.
- THE MOST RECENT PROVISIONS OF THE NEW YORK CITY BUILDING CODE SHALL GOVERN THIS WORK.
- THE WORK SHOWN IN THESE DRAWINGS SHALL BE EXECUTED IN CONJUNCTION WITH THOSE OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, SITE/CIVIL DRAWINGS AND DRAWINGS OF ALL OTHER DISCIPLINES. DISCREPANCIES BETWEEN THESE DRAWINGS AND THOSE OF OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
- SHOULD FIELD CONDITIONS CONFLICT WITH THOSE INDICATED ON THESE DRAWINGS, THE DESIGNER SHALL BE IMMEDIATELY NOTIFIED TO DETERMINE IMPACTS TO THE DESIGN AND TO PROVIDE ANY REQUIRED DESIGN CHANGES.

MATERIALS

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992, GRADE 80, U.O.N.
- FIELD WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1-06.
- WELDING ELECTRODES SHALL BE E70XX, UNLESS NOTED OTHERWISE. FILLET WELDS SHALL NOT BE LESS THAN 3/16-INCH.

CONCRETE NOTES

- CAST-IN-PLACE CONCRETE SHALL BE CONTROLLED CONCRETE AND SHALL HAVE A MINIMUM UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI U.O.N.
- CONCRETE REINFORCEMENT BARS SHALL CONSIST OF DEFORMED BILLET STEEL MEETING ASTM A615, GRADE 60.
- MECHANICAL SPLICES SHALL DEVELOP THE FULL TENSILE CAPACITY OF THE PARENT REINFORCING BAR.
- MINIMUM CONCRETE COVER SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 318.
- TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 117.
- ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED A MINIMUM OF 3/4 INCHES.
- REFER TO DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR CONCRETE REQUIREMENTS RELATED TO ALL OTHER WORK.

SHORING AND BRACING

SOLDIER PILE AND LAGGING NOTES

- SOLDIER PILES SHALL NOT BE DRIVEN.
- TEMPORARY CASING IS TO BE DRILLED TO THE TIP ELEVATION. THE SOLDIER PILE IS TO BE INSERTED AND GROUTED WITH A TREMIE PIPE. TEMPORARY CASING IS TO BE EXTRACTED DURING GROUTING.
- SOLDIER PILES SHALL BE INSTALLED TO WITHIN 3-INCHES OF THEORETICAL LOCATION. SOLDIER PILES SHALL NOT DEVIATE MORE THAN 1 PERCENT FROM PLUMB. SOLDIER PILES DRILLED OUTSIDE OF THE ABOVE TOLERANCES SHALL BE EXTRACTED AND REDRILLED.
- TIMBER SHALL BE CONSTRUCTION GRADE, ROUGH CUT FULL SIZE, SOUTHERN PINE WITH A MINIMUM ALLOWABLE BENDING STRESS OF 1950 PSI. TIMBER LAGGING SHALL BE INSTALLED FROM GROUND SURFACE TO EXTENT OF EXCAVATION (TOP-DOWN).

UNDERPINNING NOTES:

- THE EXISTING GRADE IN FRONT OF BUILDINGS TO BE UNDERPINNED SHALL NOT BE EXCAVATED ANY WIDER THAN THREE (3) FEET (THE WIDTH OF ONE UNDERPINNING PIER) PRIOR TO COMPLETING THE UNDERPINNING INSTALLATION, UNLESS APPROVED IN WRITING BY THE ENGINEER. ALL EXCAVATION FOR THE APPROACH PITS AND UNDERPINNING PIERS SHALL BE SHEETED OR SLOPED IN ACCORDANCE WITH OSHA REQUIREMENTS.
- ALL EXCAVATION FOR UNDERPINNING SHALL BE COMPLETED BY HAND IN SHEETED PITS AS SHOWN IN THE "DETAIL - TYPICAL UNDERPINNING PIT SHEETING."
- TRANSFER OF LOAD SHALL BE ACCOMPLISHED BY THE USE OF STEEL PLATES AND WEDGES AND JACKING POCKETS NO SOONER THAN 24 HOURS AFTER PLACING CONCRETE FOR THE UNDERPINNING PIERS. A MINIMUM OF TWO (2) SETS OF STEEL PLATES AND WEDGES SHALL BE INSTALLED AT EACH UNDERPINNING PIER.
- DRY-PACK SHALL BE MADE UP OF EQUAL PARTS OF SAND AND CEMENT, WITH SUFFICIENT WATER TO MAKE THE MIXTURE MOIST.
- CONTRACTOR SHALL CONFIRM TRANSFER OF THE BUILDING LOAD ONTO THE UNDERPINNING PIERS USING SURVEY INSTRUMENTS AND/OR "TELL-TALES".
- UNDERPINNING PITS SHALL BE CONSTRUCTED IN THE FOLLOWING SEQUENCE: PITS MARKED "A" SHALL BE COMPLETED FIRST, THEN PITS MARKED "B", THEN PITS MARKED "C", THEN PITS MARKED "D", THEN PITS MARKED "E".
- UNDERPINNING PIERS SHALL BE CARRIED DOWN TO THE ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS OR TO COMPETENT SOIL, WHICHEVER IS DEEPER. IF COMPETENT SOIL IS NOT FOUND AT THE ELEVATION SHOWN ON THE DRAWINGS, THE ENGINEER SHALL REVIEW THE FIELD CONDITIONS AND MAKE NECESSARY RECOMMENDATIONS.
- EACH UNDERPINNING PIER SHALL NOT BE MORE THAN 3'-0" WIDE UNLESS OTHERWISE INDICATED. ALL UNDERPINNING PIERS SHALL BE AT LEAST 2'-0" THICK (I.E. EXTEND 2'-0" BACK UNDER THE EXISTING FOOTING) UNLESS OTHERWISE INDICATED. IF THE WIDTH OF THE EXISTING FOOTING IS GREATER THAN 2'-0", THE UNDERPINNING PIERS SHALL BE AS THICK AS THE FOOTING IS WIDE.
- THE BOTTOM ELEVATION OF THE EXISTING FOOTINGS/FOUNDATION WALLS ARE ESTIMATED AND BASED ON INFORMATION FROM TEST PITS PERFORMED DURING OUR FEBRUARY 2015 GEOTECHNICAL ENGINEERING INVESTIGATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD.
- ADDITIONAL TEMPORARY SHORING OF THE COLUMNS MAY BE REQUIRED DURING THE UNDERPINNING PROCESS.
- IF REQUIRED, ANCHORS SHALL BE INSTALLED PRIOR TO EXCAVATING BELOW LEVEL OF ANCHORS. CONTRACTOR MAY SUBMIT ALTERNATIVE METHODS OF PROVIDING LATERAL SUPPORTS FOR UNDERPINNING PIERS.

- UNDERPINNING PIERS SHALL BE SHEETED ON FOUR SIDES WITH HORIZONTAL TIMBERS. THESE HORIZONTAL TIMBER BOARDS SHALL BE "LOUVERED". THAT IS, THEY SHALL BE SPACED 1-1/2" TO 2" APART TO PERMIT FILLING AND BACKPACKING OF ANY VOIDS THAT OCCUR BEHIND THE LAGGING. LAGGING SHALL BE BACKPACKED WITH PERMEABLE SOIL TO PREVENT ANY BUILD-UP OF HYDROSTATIC PRESSURE BEHIND SHEETING.
- PRIOR TO EXCAVATING ANY UNDERPINNING PIERS, THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR TO CHECK THE ADJACENT BUILDINGS FOR PLUMBNESS AND POSSIBLE ENCROACHMENT.
- PRIOR TO EXCAVATING ANY UNDERPINNING PIERS, THE CONTRACTOR WILL NEED PERMISSION FROM THE PROPERTY OWNERS OF SAID BUILDINGS TO BE UNDERPINNED.
- FOR THE BUILDING BEING UNDERPINNED, THE CONTRACTOR SHALL SET AT LEAST TWO (2) VERTICAL CONTROL POINTS AND FOUR (4) HORIZONTAL CONTROL POINTS EVERY THREE (3) FEET WITHIN THE LIMITS OF UNDERPINNING WORK. THE DURATION BETWEEN READINGS OF LATERAL AND VERTICAL MOVEMENT SHALL BE A MINIMUM OF ONCE EVERY DAY DURING ANY UNDERPINNING WORK.
- IN ADDITION, DURING THE UNDERPINNING OPERATIONS, ANY CRACK MONITORS AND "TELL-TALES" INSTALLED SHALL BE READ A MINIMUM OF ONCE EVERY DAY.
- PROVIDE ALL READINGS TO THE ENGINEER FOR REVIEW, AS THEY BECOME AVAILABLE. THE ENGINEER SHALL ADJUST THE DURATION BETWEEN READINGS BASED ON THE RATE OF MOVEMENT, IF ANY.
- ALL UNDERPINNING WORK SHALL BE SUBJECT TO CONTROLLED INSPECTION IN ACCORDANCE WITH SECTION 1704.19 OF THE NEW YORK CITY BUILDING CODE.
- THE FULL SCOPE OF THIS WORK SHALL BE DETERMINED BY THE CONTRACTOR BY SITE REVIEW PRIOR TO BIDDING.
- ADJACENT UNDERPINNING PITS SHOULD NOT BE EXCAVATED UNTIL 48 HOURS AFTER CONCRETE PLACEMENT OF THE FIRST PIT.
- CONTRACTOR SHALL NOTIFY DOB 24-48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRUCTURAL STABILITY OF THE ADJACENT BUILDINGS IN ACCORDANCE WITH SECTIONS 1704.19 AND 1814.1 OF THE NEW YORK CITY BUILDING CODE.
- UNDERPINNING SHALL BEAR ON DENSE SAND WITH A MINIMUM BEARING CAPACITY OF 3 TONS PER SQUARE FOOT .

TIE-BACK INSTALLATION AND TESTING NOTES

- ANCHOR SHALL CONSIST SINGLE-CORROSION PROTECTION HOLLOW BARS MANUFACTURED BY SAS STRESSTEEL, INC., OR APPROVED EQUIVALENT. THE ULTIMATE STRENGTH SHALL BE 97 KSI.
- PLATES AND OTHER MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36.
- GROUT SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT (TYPE I, II, OR III) AND WATER. SUBMIT MIX DESIGN SUITABLE FOR ACHIEVING AN UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI.
- PROVIDE FREE STRESSING LENGTHS AS INDICATED ON THE DRAWING SOE-401 USING SMOOTH PVC SHEATH.
- THE ANCHOR BOND ZONE SHALL HAVE SHALL HAVE A MINIMUM NOMINAL DIAMETER OF AT LEAST 6 INCHES.
- ANCHOR NUTS & COUPLERS SHALL BE CAPABLE OF DEVELOPING 100% OF THE ULTIMATE STRENGTH OF STRESS STEEL.
- CARE SHALL BE TAKEN NOT TO DAMAGE THE ANCHOR TENDONS. KEEP THE ANCHOR TENDONS FREE OF DIRT OR OTHER DELETERIOUS SUBSTANCES.
- WELDING SHALL NOT BE PERFORMED ON OR IN THE VICINITY OF ANCHOR TENDONS. ANCHOR TENDONS SHALL NOT BE USED AS A WELDING GROUND AND SHALL NOT BE EXCESSIVELY HEATED. CUTTING OF ANCHOR TENDONS SHALL BE PERFORMED WITH A METAL CUT-OFF SAW; TORCHES AND PLASMA CUTTERS SHALL NOT BE USED.
- ALL ANCHORS SHALL BE PROOF TESTED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE POST-TENSIONING INSTITUTE (PTI) DOCUMENT "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS", PTI-DC35.1-04.

PROOF TEST: AL 0.25P, 0.50P, 0.75P, 1.00P, 1.20P, 1.33P, HOLD 1.33P FOR CREEP TEST. (WHERE P = DESIGN LOAD). RECORD READINGS AT 0.1,2,3,4,5,6 AND 10 MINUTES. RELEASE TO TRANSFER LOAD AND LOCK OFF ANCHOR NUT.
- JACKING SHALL BE PERFORMED UTILIZING A CALIBRATED CENTER-HOLE JACK.
- ANCHOR MOVEMENTS SHALL BE RECORDED WITH A DIAL INDICATOR CAPABLE OF READING TO INCREMENTS OF 0.001-INCH.
- ANCHORS SHALL HAVE AN ALLOWABLE CAPACITY SUITABLE FOR ACHIEVING LOADS PRESCRIBED ON THE DRAWINGS. ANCHORS SHALL BE LOCKED OFF AT 80 PERCENT OF THE DESIGN VALUE UPON COMPLETION OF TESTING U.O.N.
- CONTRACTOR SHALL SUBMIT ANCHOR SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCING ANCHOR INSTALLATION. SHOP DRAWINGS SHALL CONTAIN ANCHOR DETAILS, INSTALLATION & TESTING PROCEDURES.

EXCAVATION

INSTALLATION AND EXCAVATION SEQUENCE NOTES

- CONTRACTOR SHALL FIELD LOCATE EXISTING STRUCTURES AND UTILITIES TO ENSURE NECESSARY CLEARANCES PRIOR TO START OF WORK.
- PRE-TRENCH AS NECESSARY TO CLEAR OBSTRUCTIONS AND REMNANT FOUNDATION ELEMENTS WHICH MAY EFFECT THE INSTALLATION OF SOLDIER PILES.
- GRADE SURFACE AS REQUIRED TO PROVIDE LEVEL WORKING PLATFORM.
- SET DRILL RIG AT DESIRED LOCATION AND PLUMB THE PILE PRIOR TO DRILLING.
- DRILL SOLDIER PILES TO REQUIRED MINIMUM DEPTHS. VIBRATION AND SURVEY MONITORING SHALL BE PERFORMED CONTINUOUSLY DURING DRILLING.
- THE TOP OF ALL PILES SHALL EXTEND A MINIMUM OF 6 INCHES ABOVE THE GROUND SURFACE.
- INSTALL BRACING AS REQUIRED INCLUDING DRILLING OF TIEBACKS.
- CONTINUE EXCAVATION AS REQUIRED TO ACHIEVE SUBGRADE ELEVATION. PROVIDE TEMPORARY DEWATERING LOCALLY AS REQUIRED FOR INSTALLATION OF PERMANENT FOUNDATIONS.
- INSTALL PERMANENT FOUNDATIONS AS REQUIRED.
- BRACING SHALL REMAIN IN-PLACE UNTIL ADEQUATE SUPPORT IS PROVIDED BY PERMANENT STRUCTURAL ELEMENTS (I.E. FOUNDATION WALLS AND INTERMEDIATE FLOOR SLABS).
- MONITORING OF WALL MOVEMENTS AND ADJACENT STRUCTURES SHALL BE PERFORMED CONTINUOUSLY DURING ALL OPERATIONS.

NEW YORK CITY SPECIAL INSPECTION NOTES

- THE DESIGNATED PROFESSIONAL ENGINEERS FOR SPECIAL INSPECTIONS RETAINED BY THE OWNER SHALL PERFORM ON-SITE INSPECTION IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE REGULATIONS UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.
 - EXCAVATION-SHEETING, SHORING AND BRACING (BC 1704.19, BC 3304.4.1
 - STRUCTURAL SAFETY - STRUCTURAL STABILITY (BC 1704.19)
 - POST-INSTALLED ANCHORS (BB#2014-018, 2014-019) (BC 1704.32)
- THE SPECIAL INSPECTION ENGINEERS ARE RESPONSIBLE FOR FILING AND OBTAINING APPROVAL OF ALL STATEMENTS, TEST AND INSPECTION REPORTS.
- ALL TESTING AGENCY REPORTS SHALL BE SIGNED AND SEALED BY A N.Y.S. LICENSED P.E.
- NYC BUILDING CODE REQUIRES NOTICE OF COMMENCEMENT OF WORK BEFORE ANY WORK BEGINS ON AN ITEM OF CONSTRUCTION REQUIRING SPECIAL INSPECTION. ALL PERSONS RESPONSIBLE FOR SUCH SPECIAL INSPECTION SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO SUCH COMMENCEMENT.

NEW YORK CITY BUILDING DEPARTMENT NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE 2014 NEW YORK CITY BUILDING CODE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF BUILDINGS AND ADJACENT PROPERTY OWNER'S 24-48 HOURS PRIOR TO COMMENCING EXCAVATION AS PER SECTION 3304.3.1 AND 3304.3.2 OF THE NEW YORK CITY BUILDING CODE.
- ALL WORK CONTAINED HEREIN SHALL BE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE. SPECIAL INSPECTORS SHALL MEET THE QUALIFICATIONS OUTLINED IN THE RULES OF THE CITY OF NEW YORK, SECTION 101-06, DATED 6-30-08. REQUIRED SPECIAL INSPECTIONS INCLUDE:
 - SOILS AS PER SECTION 1704.7
 - FILL PLACEMENT
 - IN-PLACE SOIL DENSITY
 - CONCRETE CONSTRUCTION AS PER SECTION 1704.4
 - CONCRETE MIX DESIGN
 - CONCRETE CYLINDERS AND TESTING
 - CAST-IN-PLACE CONCRETE INCLUDING PLACEMENT OF FORM WORK AND REINFORCING STEEL
 - EXCAVATION - SHEETING, SHORING AND BRACING AS PER 1704.19 AND 3304.4.1
 - STEEL CONSTRUCTION AS PER SECTION 1704.3
 - WELDING
- IN CONFORMANCE WITH THE NEW YORK CITY BUILDING CODE, THE OWNER'S ENGINEER SHALL BE RETAINED TO CONDUCT THE REQUIRED SPECIAL INSPECTIONS.
- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SCOPE AND DETAILED REQUIREMENTS FOR INSPECTIONS AND TESTING.
- REFER TO THE PROJECT SPECIFICATIONS AND DRAWINGS FOR INSPECTION AND TESTING REQUIREMENTS PERTAINING TO WORK OF OTHER TRADES.

PROFESSIONAL XXXXXXXXX
STATE LIC. No. XXXXX

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N.T.S.

Drawn By

RK

Checked By

JMD

Submission Date

12/23/2015

Drawing No.

SOE-001

Sheet 1 of 10

DRAFT – WORK IN PROGRESS

LANGAN SUBMISSION DATE: X PROJECT NO. #

LOT 85 A=13,275.10 SQ.FT.=0.30 ACRES
 TOTAL LOTS A=31,246.95 SQ.FT.=0.72 ACRES

627 GREENWICH STREET

78 MORTON STREET

423 HUDSON STREET

625 GREENWICH ST

GREENWICH STREET

LEROY STREET

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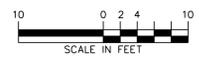
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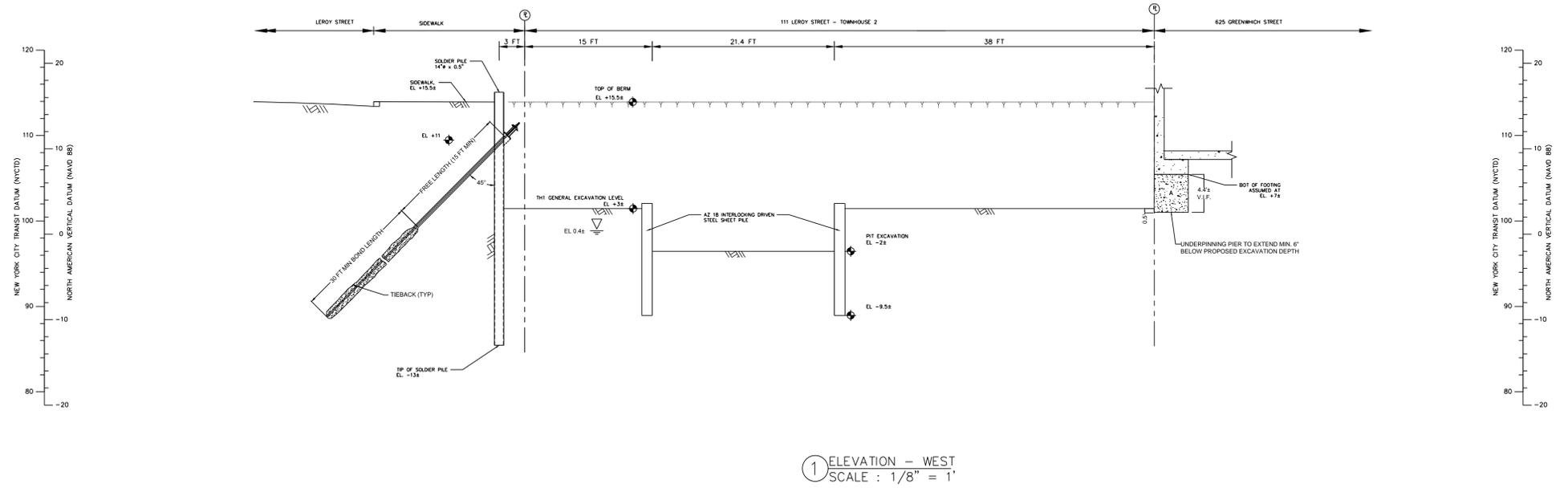
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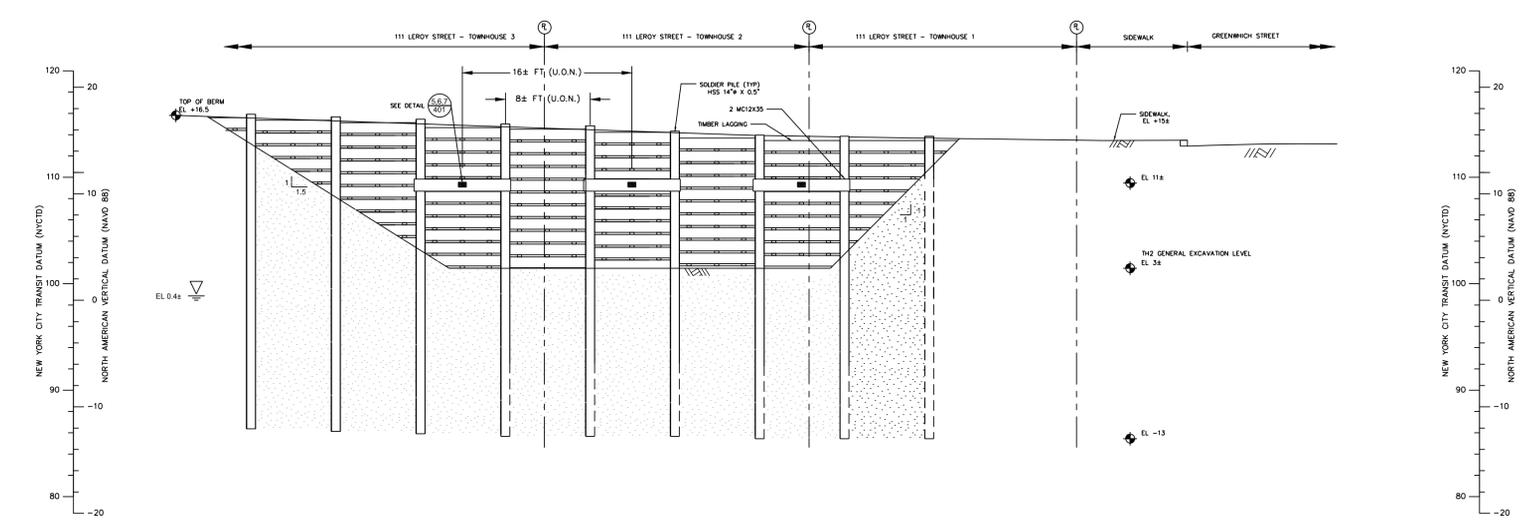
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SUPPORT OF EXCAVATION PLAN

Project No. 170370001	Drawing No. SOE-101
Date 12/23/2015	
Scale 1"=10'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 2 of 10





① ELEVATION - WEST
SCALE : 1/8" = 1'



② ELEVATION - SOUTH
SCALE : 1/8" = 1'

DRAFT – WORK IN PROGRESS

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STATE LIC. No. XXXXX

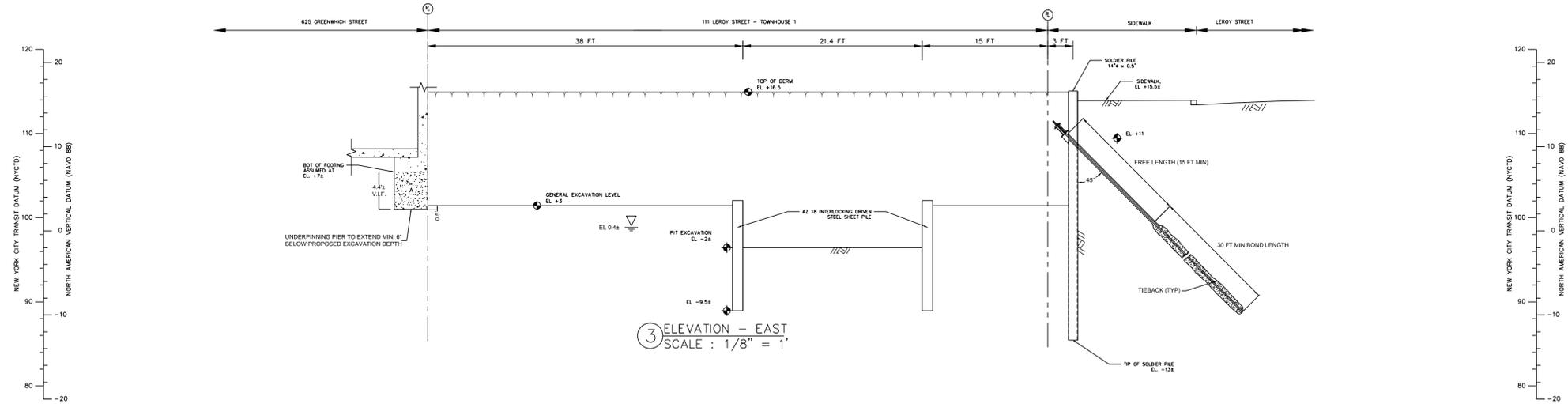
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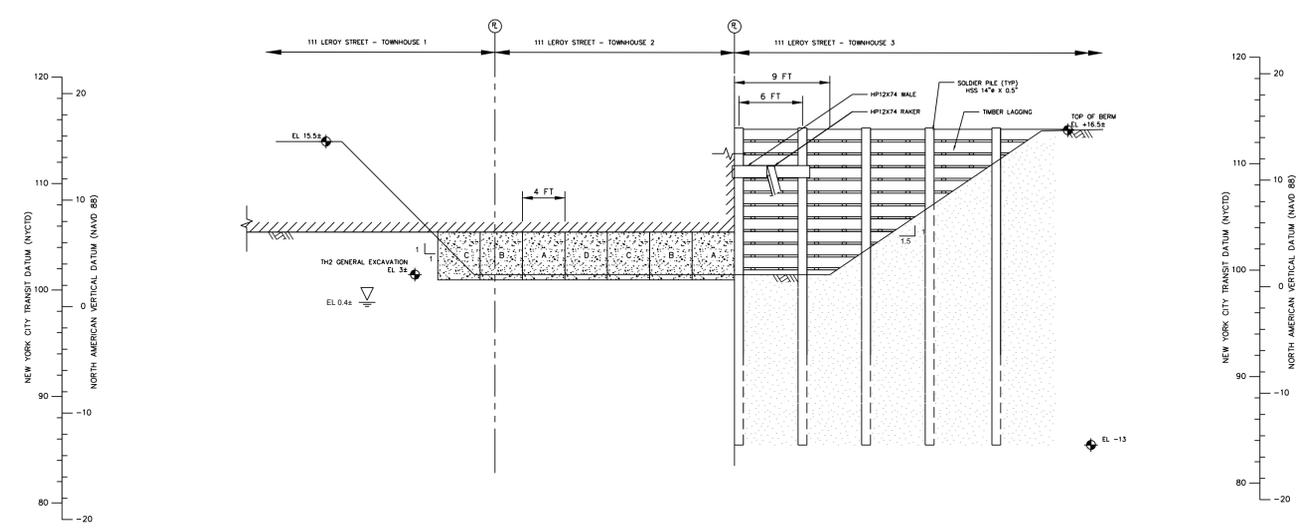
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Project
111 LEROY STREET
BLOCK No. 602, LOT No.83-85
MANHATTAN
NEW YORK NEW YORK

Drawing Title ELEVATIONS	
Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-201
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 3 of 10



3 ELEVATION - EAST
SCALE : 1/8" = 1'



4 ELEVATION - NORTH
SCALE : 1/8" = 1'

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111 LEROY STREET

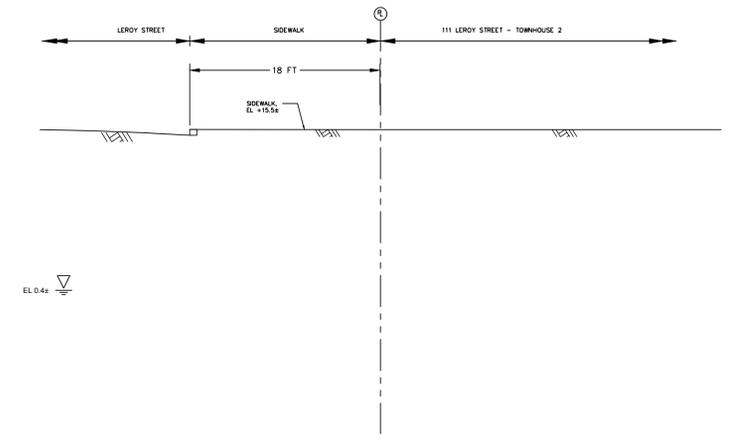
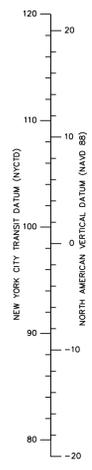
BLOCK No. 602, LOT No.83-85
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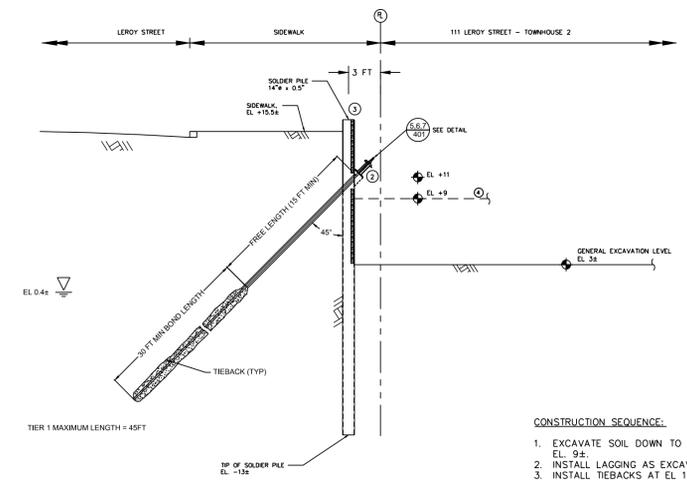
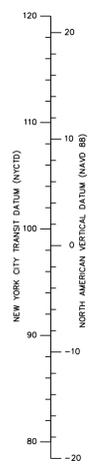
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ELEVATIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-201
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 4 of 11

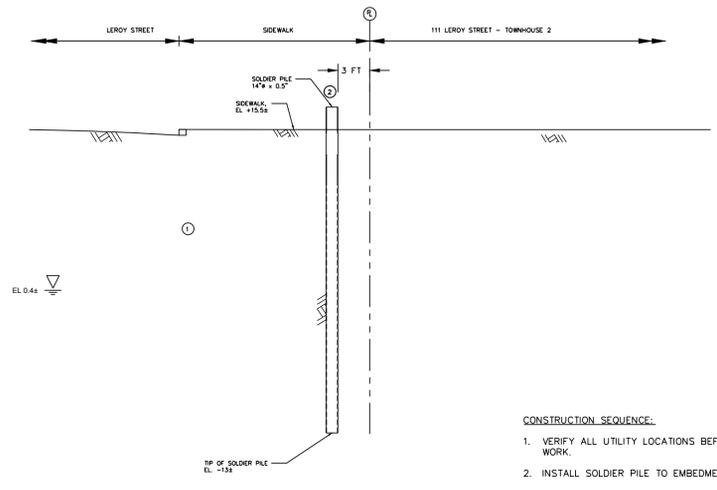
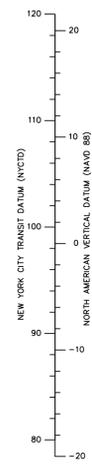


SECTION A - EXISTING CONDITIONS



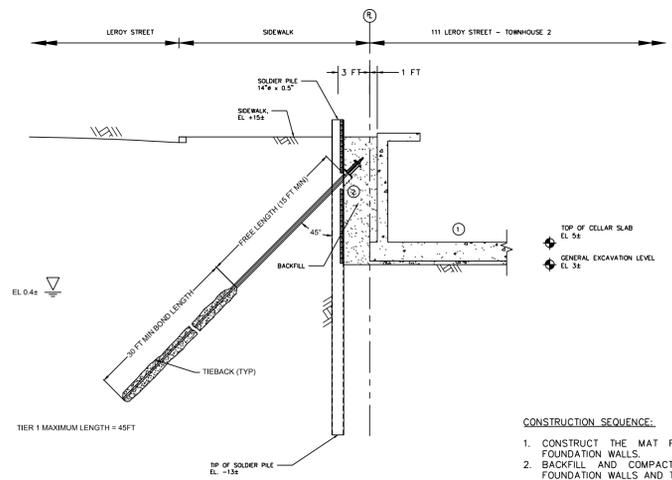
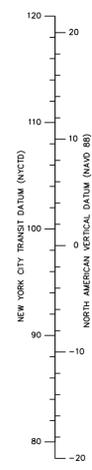
- CONSTRUCTION SEQUENCE:**
1. EXCAVATE SOIL DOWN TO TEMPORARY LEVEL AT EL. 9±.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. INSTALL TIEBACKS AT EL. 11±.
 4. EXCAVATE SOIL TO GENERAL EXCAVATION LEVEL.

SECTION A - STAGE 2



- CONSTRUCTION SEQUENCE:**
1. VERIFY ALL UTILITY LOCATIONS BEFORE STARTING WORK.
 2. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH.

SECTION A - STAGE 1



- CONSTRUCTION SEQUENCE:**
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.
 2. BACKFILL AND COMPACT BETWEEN THE NEW FOUNDATION WALLS AND THE SOLDIER PILES.

SECTION A - STAGE 3

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BLOCK No. 602, LOT No. 83-85
MANHATTAN

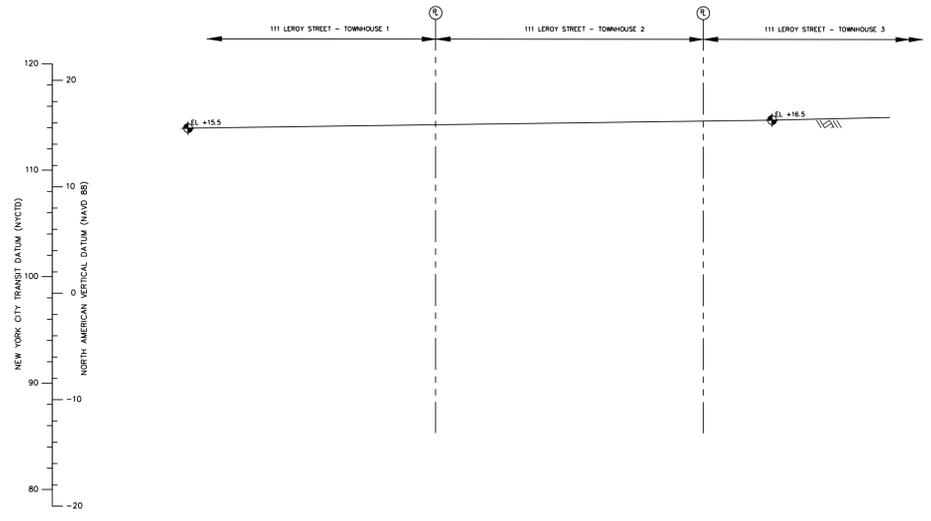
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Drawing Title

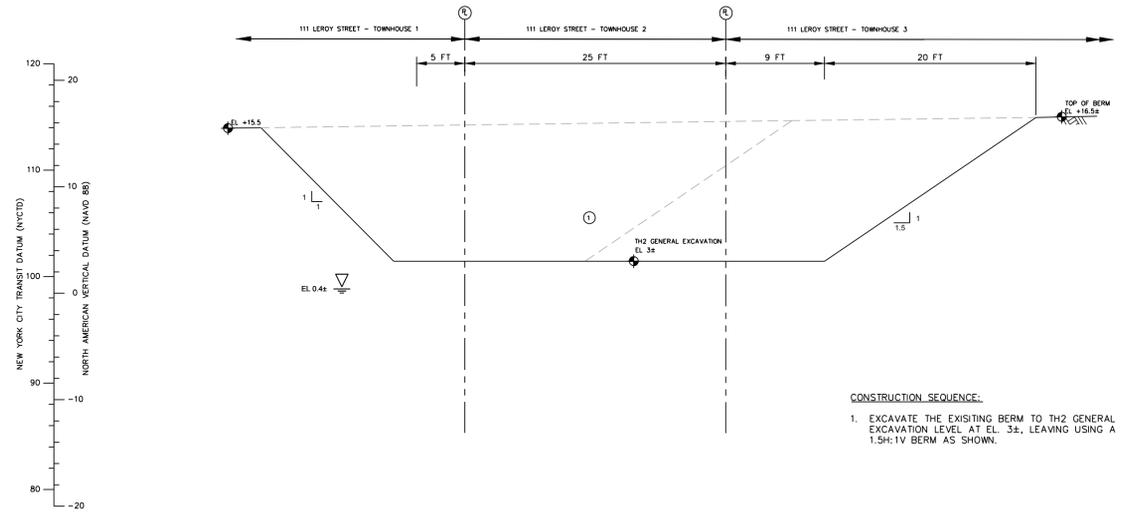
SECTIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-301
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 5 of 10

DRAFT - WORK IN PROGRESS

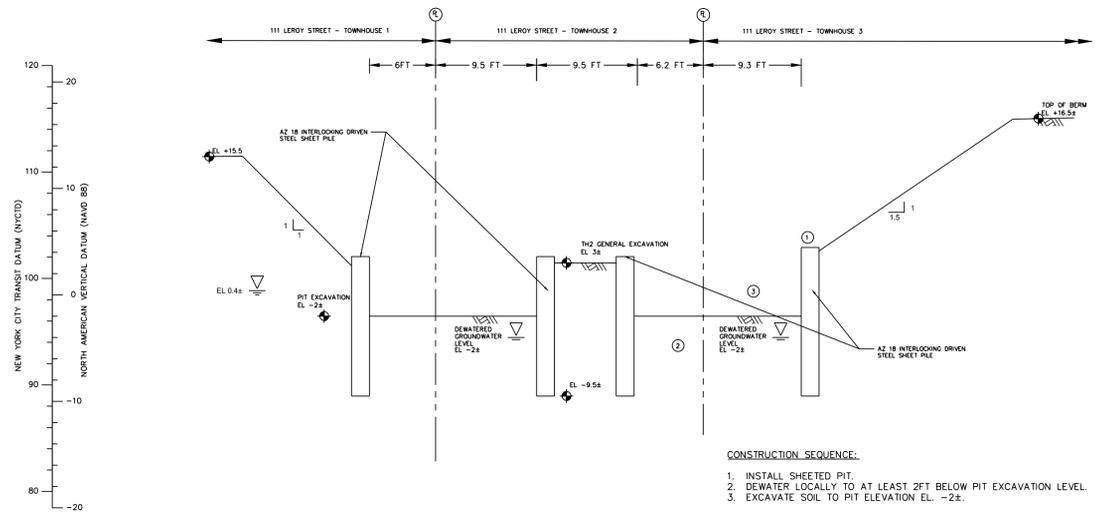


SECTION B - EXISTING CONDITIONS



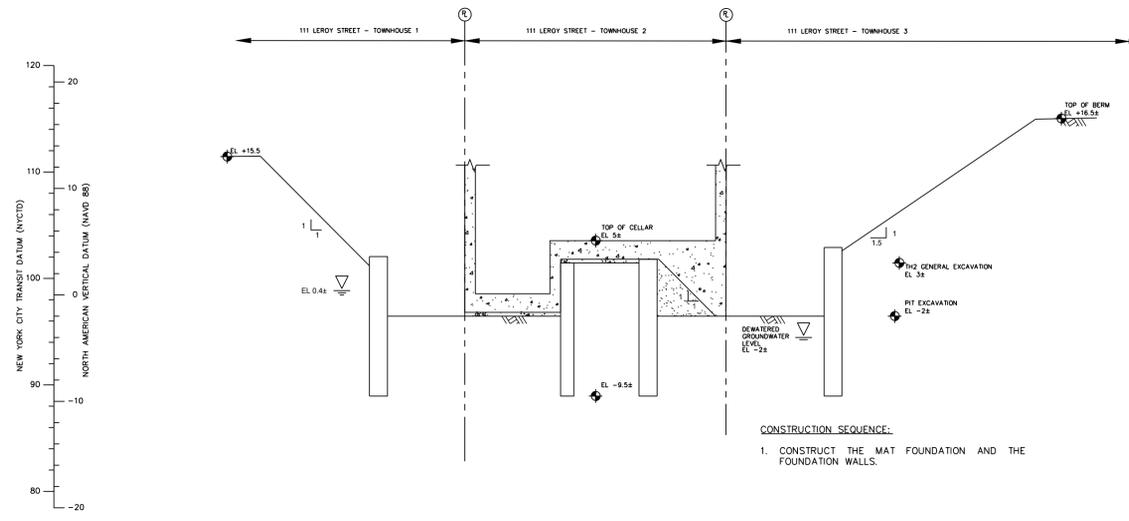
SECTION B - STAGE 1

CONSTRUCTION SEQUENCE:
 1. EXCAVATE THE EXISTING BERM TO TH2 GENERAL EXCAVATION LEVEL AT EL. 3±, LEAVING USING A 1.5H:1V BERM AS SHOWN.



SECTION B - STAGE 2

CONSTRUCTION SEQUENCE:
 1. INSTALL SHEETED PIT.
 2. DEWATER LOCALLY TO AT LEAST 2FT BELOW PIT EXCAVATION LEVEL.
 3. EXCAVATE SOIL TO PIT ELEVATION EL. -2±.



SECTION B - STAGE 3

CONSTRUCTION SEQUENCE:
 1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.

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BLOCK No. 602, LOT No. 83-85
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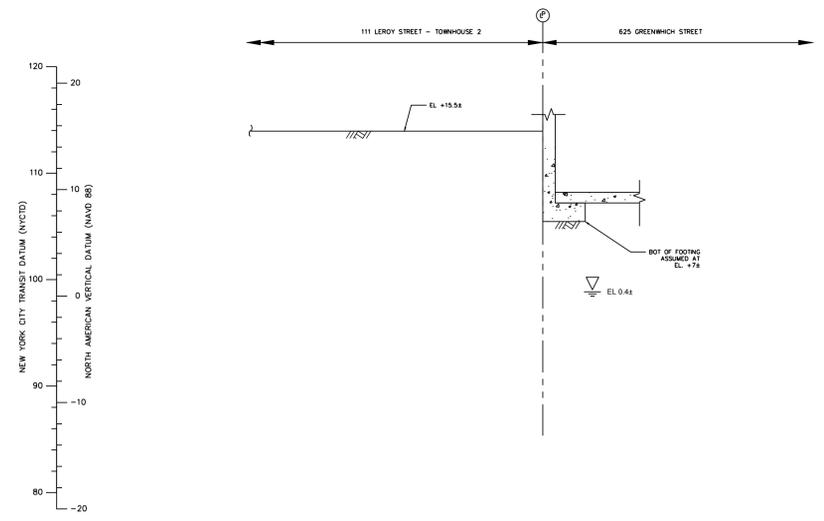
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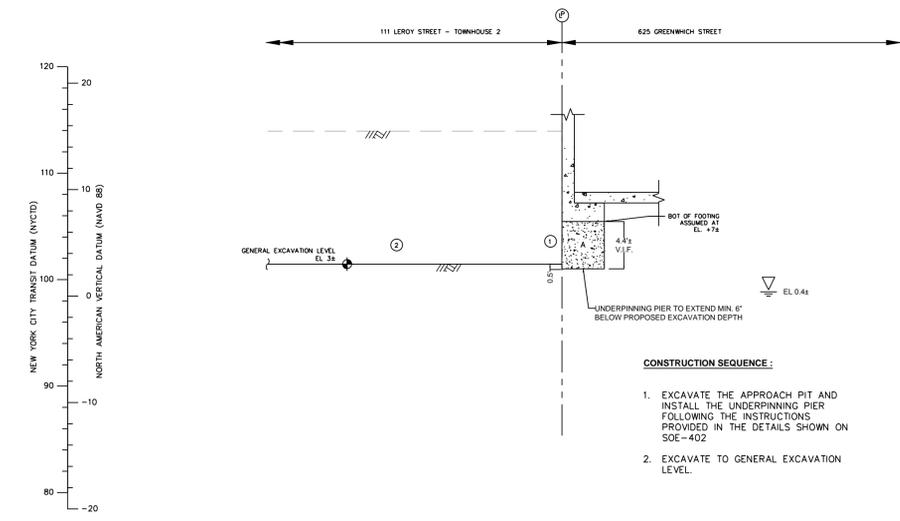
SECTIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-302
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 6 of 10

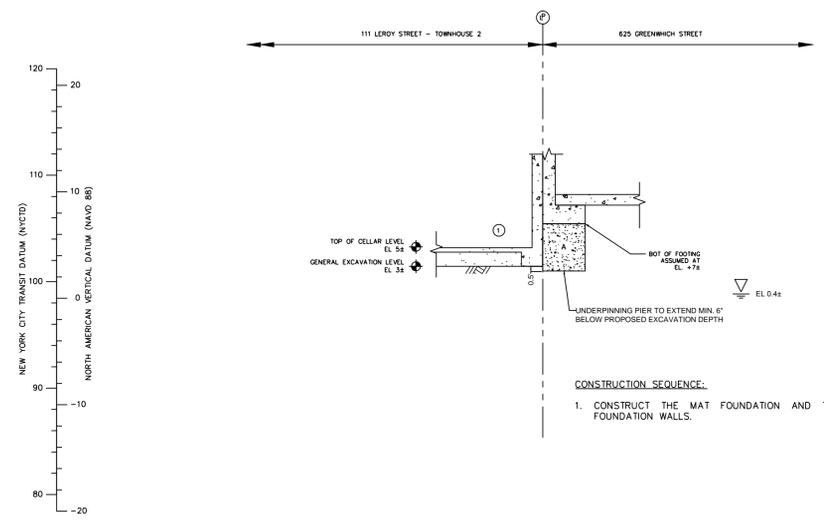
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SECTION C - EXISTING CONDITIONS



SECTION C - STAGE 1



SECTION C - STAGE 2

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BLOCK No. 602, LOT No.83-85
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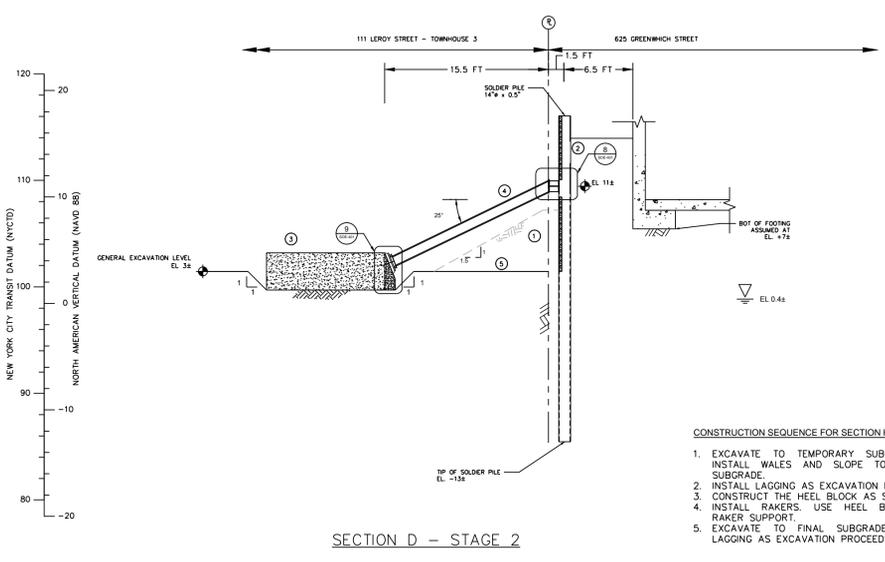
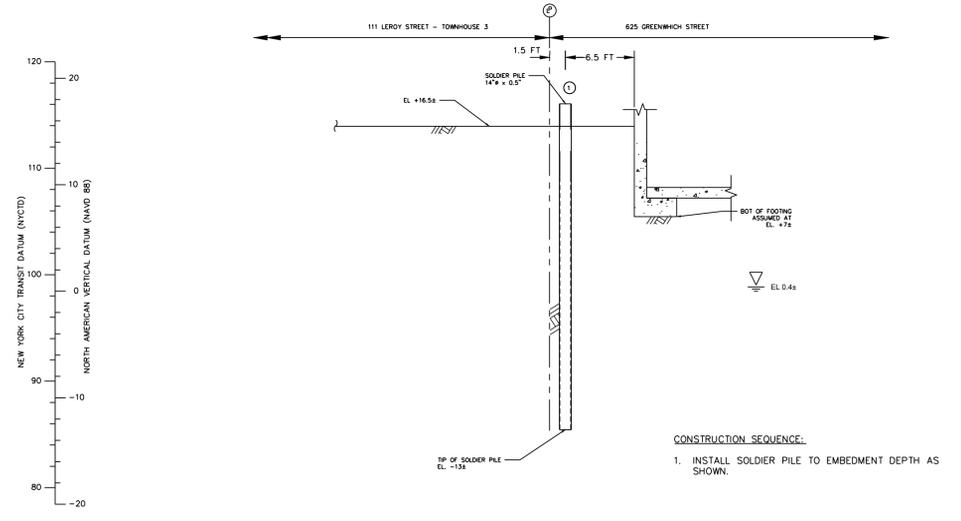
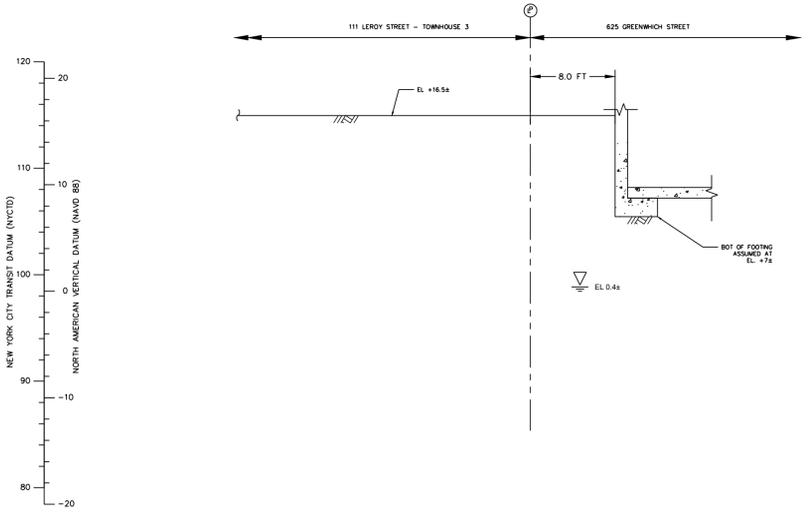
NEW YORK NEW YORK

Drawing Title

SECTIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-303
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 7 of 10

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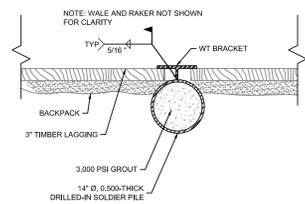
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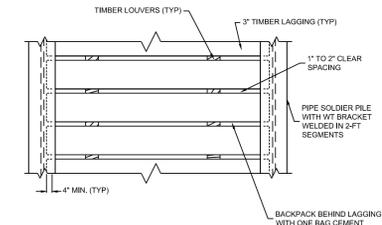
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Submission Date 12/23/2015	Sheet 8 of 10

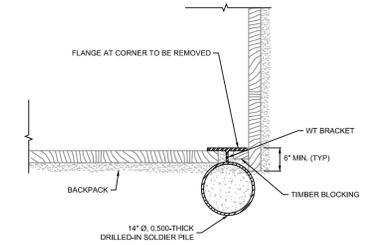
DRAFT - WORK IN PROGRESS



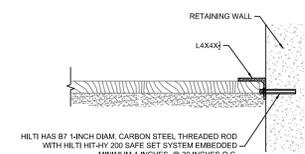
1 SOLDIER PILE TO LAGGING CONNECTION
SCALE: N.T.S.



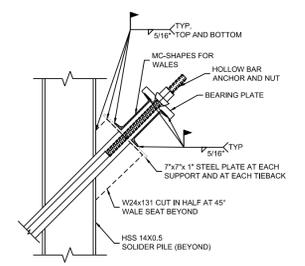
2 TYPICAL LAGGING INSTALLATION
SCALE: N.T.S.



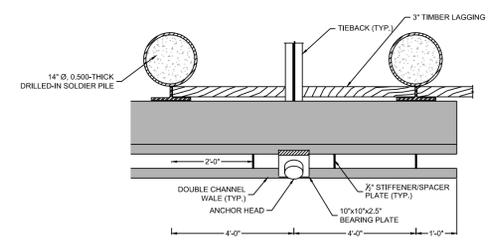
3 CORNER SOLDIER PILE DETAIL
SCALE: N.T.S.



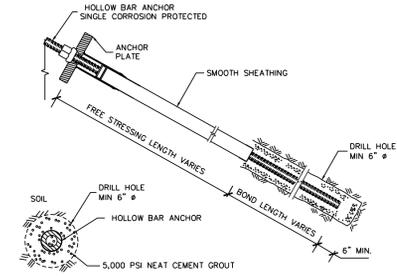
4 LAGGING SUPPORT AT STRUCTURE
SCALE: N.T.S.



5 TIEBACK SUPPORT DETAIL (SECTION)
SCALE: N.T.S.

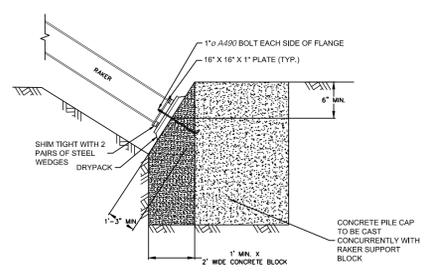


6 TIEBACK SUPPORT DETAIL (PLAN)
SCALE: N.T.S.

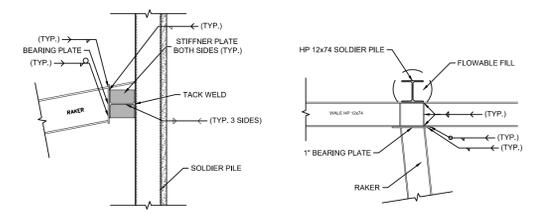


TIEBACK TYPE	WALL	DESIGN LOAD	LOCK-OFF	WALE	ANGLE
ANP H1200-64	WEST	85 KIP	85 KIP	(2) MCI2x35	45°
ANP H1200-64	SOUTH	85 KIP	85 KIP	(2) MCI2x35	45°

7 TIEBACK DETAIL
SCALE: N.T.S.



8 HEEL BLOCK CONNECTION DETAIL
SCALE: N.T.S.



9 WALER RAKER SYSTEM DETAIL
SCALE: N.T.S.

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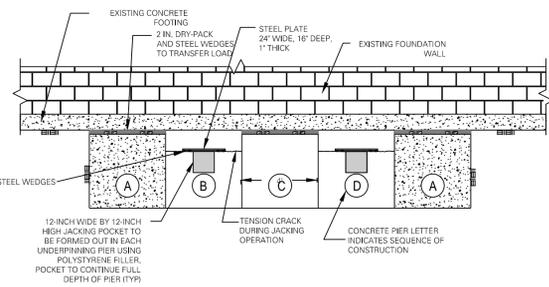
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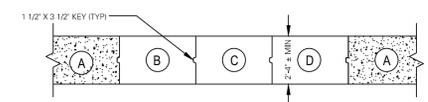
DETAILS

Project No. 170370001	Drawing No. SOE-401
Date 12/23/2015	
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 9 of 10

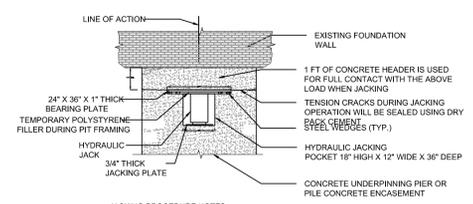
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10 UNDERPINNING DETAILS – ELEVATION
SCALE: N.T.S.

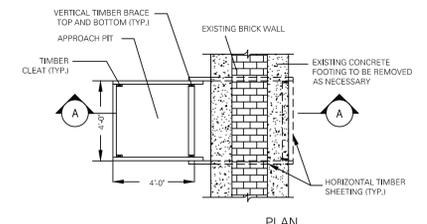


11 UNDERPINNING DETAILS – PLAN
SCALE: N.T.S.

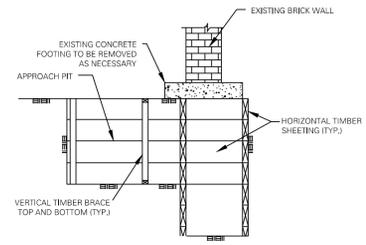


- JACKING PROCEDURE NOTES:**
- INSTALL FORMWORK FOR JACKING POCKET BELOW THE BOTTOM OF EXISTING FOOTING PER DETAILS SHOWN.
 - INSTALL POLYSTYRENE FILLER AND STEEL PLATE.
 - PLACE UNDERPINNING CONCRETE.
 - REMOVE JACKING POCKET FRAMING.
 - INSERT HYDRAULIC JACK AND JACK TO LOAD PROVIDED BY THE GEOTECHNICAL ENGINEER. CONCRETE UNDERPINNING SHOULD CRACK IN TENSION ADJACENT TO THE JACKING POCKET AS ILLUSTRATED IN DETAIL.
 - MONITOR OPTICAL SURVEY TARGETS, INSTALLED ON THE WALL AND THE UNDERPINNING PIERS DURING JACKING OPERATION TO ENSURE THE PROPER TRANSFER OF THE LOADS TO THE UNDERPINNING PIERS. STOP THE JACKING OPERATION IF ANY MOVEMENT IS DETECTED ON THE WALL.
 - WEDGE AND DRY-PACK TO TRANSFER LOADS AS SHOWN.
 - REMOVE JACK AND FILL REMAINING ANNULUS OF JACKING POCKET WITH DRY-PACK.

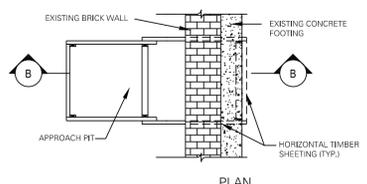
12 TYPICAL HYDRAULIC JACK POCKET DETAIL
SCALE: N.T.S.



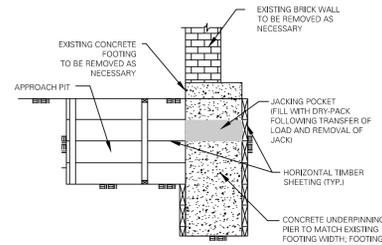
PLAN



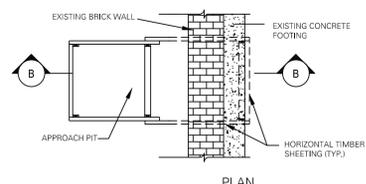
SECTION A-A
STAGE 1



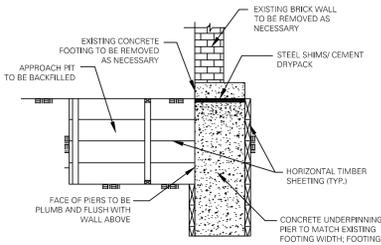
PLAN



SECTION B-B
STAGE 2



PLAN



SECTION C-C
STAGE 3

- STAGE 1:**
- EXCAVATE APPROACH PIT FOR A MINIMUM CLEAR DISTANCE BETWEEN SIMULTANEOUS PITS SHALL BE 12 FT.
 - CLEAN UNDERPINNING SUBGRADE AND RECOMPACT DISTURBED SOIL WITH MECHANICAL TAMPERS. LOSS OF GROUND SHALL BE KEPT TO A MINIMUM BY BACKFILLING BEHIND THE BOARDS WHERE AND WHEN POSSIBLE WITH SALT, HAY OR SAND/CEMENT GROUT PLUMPED INTO THE Voids.

- STAGE 2:**
- POUR CONCRETE UNDERPINNING PIER BELOW FOUNDATION. PROVIDE JACKING POCKET AS SHOWN IN DETAIL 1050E-402.
 - AFTER CONCRETE ATTAINS 75% OF DESIGN STRENGTH, REFER TO STRUCTURAL DRAWINGS FOR DETAILS ON REMOVAL OF EXISTING FOUNDATION ELEMENTS.
 - AFTER REMOVAL OF PORTIONS OF EXISTING FOUNDATION ELEMENTS, JACK PIT TO CREATE UNDERPINNING. TRANSFER LOADS TO UNDERPINNING BY MEANS OF STEEL PLATES AND STEEL WEDGES. AFTER THE BUILDING LOAD IS TRANSFERRED TO THE UNDERPINNING PIER, THE SPACE SHALL BE FILLED WITH NON-SHRINK GROUT OR DRY-PACK MORTAR. DRY-PACK TO BE ONE PART PORTLAND CEMENT AND THREE PARTS FINE SAND WITH JUST ENOUGH WATER FOR HYDRATION.
 - REMOVE RING SHEETING AND BACKFILL APPROACH PIT.
 - REPEAT STAGES 1 AND 2 FOR PITS B, C, THEN D.

- STAGE 3:**
- REMOVE PORTION OF EXISTING FOOTING AND BRICK WALL AS NEEDED FOR ELEVATOR PIT INSTALLATION.
 - REMOVE RING SHEETING AND BACKFILL APPROACH PIT.
- REPEAT STAGES 1 THROUGH 3 FOR PITS B, C THEN D.

13 UNDERPINNING DETAILS – STAGING OF UNDERPINNING
SCALE: N.T.S.

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MANHATTAN

NEW YORK NEW YORK

Drawing Title

DETAILS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-402
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 10 of 10

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GENERAL NOTES:

1. BASE PLAN EXTRACTED FROM A SURVEY BY JOSEPH NICHOLETI ASSOCIATES DATED 07/29/2014.
2. FOUNDATION BACKGROUND OBTAINED FROM DRAWING TITLED "FO0101.00 FOUNDATION PLAN" PREPARED BY SIMPSON GUMPERTZ & HEGER, DATED NOVEMBER 20,2015.
3. ELEVATIONS ARE WITH RESPECT TO THE TRANSIT AUTHORITY (TA) DATUM AND NORTH AMERICAN VERTICAL DATUM (NAVD) 1988, WHICH IS 1.106 FT ABOVE MEAN SEA LEVEL AT SANDY HOOK, NJ ESTABLISHED BY U.S. COAST AND GEODETIC SURVEY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HIS WORK SUCH THAT NO DAMAGE OR ADVERSE IMPACT TO THE NEIGHBORING BUILDINGS AND STRUCTURES RESULT, AND FOR PERFORMING NEIGHBORING/BORDERING BUILDING AND STRUCTURE MONITORING DURING SOIL EXCAVATION AND EXCAVATION SUPPORT CONSTRUCTION TO KEEP HIMSELF CONTINUOUSLY INFORMED OF THEIR CONDITIONS.
5. A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND RETAINED DIRECTLY BY THE OWNER SHALL PERFORM SPECIAL INSPECTION OF THE EXCAVATION SUPPORT WORK IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704.19 OF THE NYC BUILDING CODE.
6. CONTRACTOR SHALL NOTIFY NYCDOB AND NEIGHBORING BUILDING OWNERS 24 TO 48 HOURS PER THE REQUIREMENTS OF THE LATEST NYC BUILDING CODE PRIOR TO COMMENCEMENT OF EXCAVATION WORK.
7. CONTRACTOR SITE SAFETY AND SITE LOGISTICS ARE BEYOND THE SCOPE OF THESE DRAWINGS AND ARE NOT ADDRESSED HEREIN.
8. ON-SITE SUBSURFACE CONDITIONS INDICATED ON THE DRAWINGS ARE INFERRED BASED ON OBSERVATIONS IN THE DRILLED BORINGS. THE ACTUAL SUBSURFACE CONDITIONS MAY VARY.
9. THE MOST RECENT PROVISIONS OF THE NEW YORK CITY BUILDING CODE SHALL GOVERN THIS WORK.
10. THE WORK SHOWN IN THESE DRAWINGS SHALL BE EXECUTED IN CONJUNCTION WITH THOSE OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, SITE/CIVIL DRAWINGS AND DRAWINGS OF ALL OTHER DISCIPLINES. DISCREPANCIES BETWEEN THESE DRAWINGS AND THOSE OF OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
11. SHOULD FIELD CONDITIONS CONFLICT WITH THOSE INDICATED ON THESE DRAWINGS, THE DESIGNER SHALL BE IMMEDIATELY NOTIFIED TO DETERMINE IMPACTS TO THE DESIGN AND TO PROVIDE ANY REQUIRED DESIGN CHANGES.

MATERIALS

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992, GRADE 80, U.O.N.
2. FIELD WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1-06.
3. WELDING ELECTRODES SHALL BE E70XX, UNLESS NOTED OTHERWISE. FILLET WELDS SHALL NOT BE LESS THAN 3/16-INCH.

CONCRETE NOTES

1. CAST-IN-PLACE CONCRETE SHALL BE CONTROLLED CONCRETE AND SHALL HAVE A MINIMUM UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI U.O.N.
2. CONCRETE REINFORCEMENT BARS SHALL CONSIST OF DEFORMED BILLET STEEL MEETING ASTM A615, GRADE 60.
3. MECHANICAL SPLICES SHALL DEVELOP THE FULL TENSILE CAPACITY OF THE PARENT REINFORCING BAR.
4. MINIMUM CONCRETE COVER SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 318.
5. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 117.
6. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED A MINIMUM OF 3/4 INCHES.
7. REFER TO DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR CONCRETE REQUIREMENTS RELATED TO ALL OTHER WORK.

SHORING AND BRACING

SOLDIER PILE AND LAGGING NOTES

1. SOLDIER PILES SHALL NOT BE DRIVEN.
2. TEMPORARY CASING IS TO BE DRILLED TO THE TIP ELEVATION. THE SOLDIER PILE IS TO BE INSERTED AND GROUTED WITH A TREMIE PIPE. TEMPORARY CASING IS TO BE EXTRACTED DURING GROUTING.
3. SOLDIER PILES SHALL BE INSTALLED TO WITHIN 3-INCHES OF THEORETICAL LOCATION. SOLDIER PILES SHALL NOT DEVIATE MORE THAN 1 PERCENT FROM PLUMB. SOLDIER PILES DRILLED OUTSIDE OF THE ABOVE TOLERANCES SHALL BE EXTRACTED AND REDRILLED.
4. TIMBER SHALL BE CONSTRUCTION GRADE, ROUGH CUT FULL SIZE, SOUTHERN PINE WITH A MINIMUM ALLOWABLE BENDING STRESS OF 1950 PSI. TIMBER LAGGING SHALL BE INSTALLED FROM GROUND SURFACE TO EXTENT OF EXCAVATION (TOP-DOWN).

TIE-BACK INSTALLATION AND TESTING NOTES

1. ANCHOR SHALL CONSIST SINGLE-CORROSION PROTECTION HOLLOW BARS MANUFACTURED BY SAS STRESSSTEEL, INC., OR APPROVED EQUIVALENT. THE ULTIMATE STRENGTH SHALL BE 97 KSI.
2. PLATES AND OTHER MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36.
3. GROUT SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT (TYPE I, II, OR III) AND WATER. SUBMIT MIX DESIGN SUITABLE FOR ACHIEVING AN UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI.
4. PROVIDE FREE STRESSING LENGTHS AS INDICATED ON THE DRAWING SOE-401 USING SMOOTH PVC SHEATH.
5. THE ANCHOR BOND ZONE SHALL HAVE SHALL HAVE A MINIMUM NOMINAL DIAMETER OF AT LEAST 6 INCHES.
6. ANCHOR NUTS & COUPLERS SHALL BE CAPABLE OF DEVELOPING 100% OF THE ULTIMATE STRENGTH OF STRESS STEEL.
7. CARE SHALL BE TAKEN NOT TO DAMAGE THE ANCHOR TENDONS. KEEP THE ANCHOR TENDONS FREE OF DIRT OR OTHER DELETERIOUS SUBSTANCES.
8. WELDING SHALL NOT BE PERFORMED ON OR IN THE VICINITY OF ANCHOR TENDONS. ANCHOR TENDONS SHALL NOT BE USED AS A WELDING GROUND AND SHALL NOT BE EXCESSIVELY HEATED. CUTTING OF ANCHOR TENDONS SHALL BE PERFORMED WITH A METAL CUT-OFF SAW; TORCHES AND PLASMA CUTTERS SHALL NOT BE USED.
9. ALL ANCHORS SHALL BE PROOF TESTED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE POST-TENSIONING INSTITUTE (PTI) DOCUMENT "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS", PTI-DC35.1-04.

PROOF TEST: AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P, 1.33P, HOLD 1.33P FOR CREEP TEST, (WHERE P = DESIGN LOAD); RECORD READINGS AT 0.1,2,3,4,5,6 AND 10 MINUTES; RELEASE TO TRANSFER LOAD AND LOCK OFF ANCHOR NUT.

10. JACKING SHALL BE PERFORMED UTILIZING A CALIBRATED CENTER-HOLE JACK.
11. ANCHOR MOVEMENTS SHALL BE RECORDED WITH A DIAL INDICATOR CAPABLE OF READING TO INCREMENTS OF 0.001-INCH.
12. ANCHORS SHALL HAVE AN ALLOWABLE CAPACITY SUITABLE FOR ACHIEVING LOADS PRESCRIBED ON THE DRAWINGS. ANCHORS SHALL BE LOCKED OFF AT 80 PERCENT OF THE DESIGN VALUE UPON COMPLETION OF TESTING U.O.N.
13. CONTRACTOR SHALL SUBMIT ANCHOR SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCING ANCHOR INSTALLATION. SHOP DRAWINGS SHALL CONTAIN ANCHOR DETAILS, INSTALLATION & TESTING PROCEDURES.

EXCAVATION

INSTALLATION AND EXCAVATION SEQUENCE NOTES

1. CONTRACTOR SHALL FIELD LOCATE EXISTING STRUCTURES AND UTILITIES TO ENSURE NECESSARY CLEARANCES PRIOR TO START OF WORK.
2. PRE-TRENCH AS NECESSARY TO CLEAR OBSTRUCTIONS AND REMNANT FOUNDATION ELEMENTS WHICH MAY EFFECT THE INSTALLATION OF SOLDIER PILES.
3. GRADE SURFACE AS REQUIRED TO PROVIDE LEVEL WORKING PLATFORM.
4. SET DRILL RIG AT DESIRED LOCATION AND PLUMB THE PILE PRIOR TO DRILLING.
5. DRILL SOLDIER PILES TO REQUIRED MINIMUM DEPTHS. VIBRATION AND SURVEY MONITORING SHALL BE PERFORMED CONTINUOUSLY DURING DRILLING.
6. THE TOP OF ALL PILES SHALL EXTEND A MINIMUM OF 6 INCHES ABOVE THE GROUND SURFACE.
7. INSTALL BRACING AS REQUIRED INCLUDING DRILLING OF TIEBACKS.
8. CONTINUE EXCAVATION AS REQUIRED TO ACHIEVE SUBGRADE ELEVATION. PROVIDE TEMPORARY DEWATERING LOCALLY AS REQUIRED FOR INSTALLATION OF PERMANENT FOUNDATIONS.
9. INSTALL PERMANENT FOUNDATIONS AS REQUIRED.
10. BRACING SHALL REMAIN IN-PLACE UNTIL ADEQUATE SUPPORT IS PROVIDED BY PERMANENT STRUCTURAL ELEMENTS (I.E. FOUNDATION WALLS AND INTERMEDIATE FLOOR SLABS).
11. MONITORING OF WALL MOVEMENTS AND ADJACENT STRUCTURES SHALL BE PERFORMED CONTINUOUSLY DURING ALL OPERATIONS.

NEW YORK CITY SPECIAL INSPECTION NOTES

1. THE DESIGNATED PROFESSIONAL ENGINEERS FOR SPECIAL INSPECTIONS RETAINED BY THE OWNER SHALL PERFORM ON-SITE INSPECTION IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE REGULATIONS UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.
 - a. EXCAVATION-SHEETING, SHORING AND BRACING (BC 1704.19, BC 3304.4.1
 - b. STRUCTURAL SAFETY - STRUCTURAL STABILITY (BC 1704.19)
 - c. POST-INSTALLED ANCHORS [BB#2014-018, 2014-019] (BC 1704.32)
2. THE SPECIAL INSPECTION ENGINEERS ARE RESPONSIBLE FOR FILING AND OBTAINING APPROVAL OF ALL STATEMENTS, TEST AND INSPECTION REPORTS.
3. ALL TESTING AGENCY REPORTS SHALL BE SIGNED AND SEALED BY A N.Y.S. LICENSED P.E.
4. NYC BUILDING CODE REQUIRES NOTICE OF COMMENCEMENT OF WORK BEFORE ANY WORK BEGINS ON AN ITEM OF CONSTRUCTION REQUIRING SPECIAL INSPECTION. ALL PERSONS RESPONSIBLE FOR SUCH SPECIAL INSPECTION SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO SUCH COMMENCEMENT.

NEW YORK CITY BUILDING DEPARTMENT NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE 2014 NEW YORK CITY BUILDING CODE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF BUILDINGS AND ADJACENT PROPERTY OWNER'S 24-48 HOURS PRIOR TO COMMENCING EXCAVATION AS PER SECTION 3304.3.1 AND 3304.3.2 OF THE NEW YORK CITY BUILDING CODE.
3. ALL WORK CONTAINED HEREIN SHALL BE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE. SPECIAL INSPECTORS SHALL MEET THE QUALIFICATIONS OUTLINED IN THE RULES OF THE CITY OF NEW YORK, SECTION 101-06, DATED 6-30-08. REQUIRED SPECIAL INSPECTIONS INCLUDE:
 - A. SOILS AS PER SECTION 1704.7
 - a. FILL PLACEMENT
 - b. IN-PLACE SOIL DENSITY
 - B. CONCRETE CONSTRUCTION AS PER SECTION 1704.4
 - a. CONCRETE MIX DESIGN
 - b. CONCRETE CYLINDERS AND TESTING
 - c. CAST-IN-PLACE CONCRETE INCLUDING PLACEMENT OF FORM WORK AND REINFORCING STEEL
 - C. EXCAVATION - SHEETING, SHORING AND BRACING AS PER 1704.19 AND 3304.4.1
 - E. STEEL CONSTRUCTION AS PER SECTION 1704.3
 - a. WELDING
4. IN CONFORMANCE WITH THE NEW YORK CITY BUILDING CODE, THE OWNER'S ENGINEER SHALL BE RETAINED TO CONDUCT THE REQUIRED SPECIAL INSPECTIONS.
5. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SCOPE AND DETAILED REQUIREMENTS FOR INSPECTIONS AND TESTING.
6. REFER TO THE PROJECT SPECIFICATIONS AND DRAWINGS FOR INSPECTION AND TESTING REQUIREMENTS PERTAINING TO WORK OF OTHER TRADES.

DRAFT – WORK IN PROGRESS

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Project

111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

NEW YORK NEW YORK

Drawing Title

SUPPORT OF EXCAVATION PLAN

Project No.

170370001

Date

12/23/2015

Scale

1/8"=1'

Drawn By

RK

Checked By

JMD

Submission Date

12/23/2015

Drawing No.

SOE-101

Sheet 1 of 10

LOT 85 A=13,275.10 SQ.FT.=0.30 ACRES
 TOTAL LOTS A=31,246.95 SQ.FT.=0.72 ACRES

627 GREENWICH STREET

78 MORTON STREET

423 HUDSON STREET

625 GREENWICH ST

GREENWICH STREET

DRAFT – WORK IN PROGRESS

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BLOCK No. 602, LOT No. 83-85
 MANHATTAN

NEW YORK NEW YORK

Drawing Title

**SUPPORT OF
 EXCAVATION PLAN**

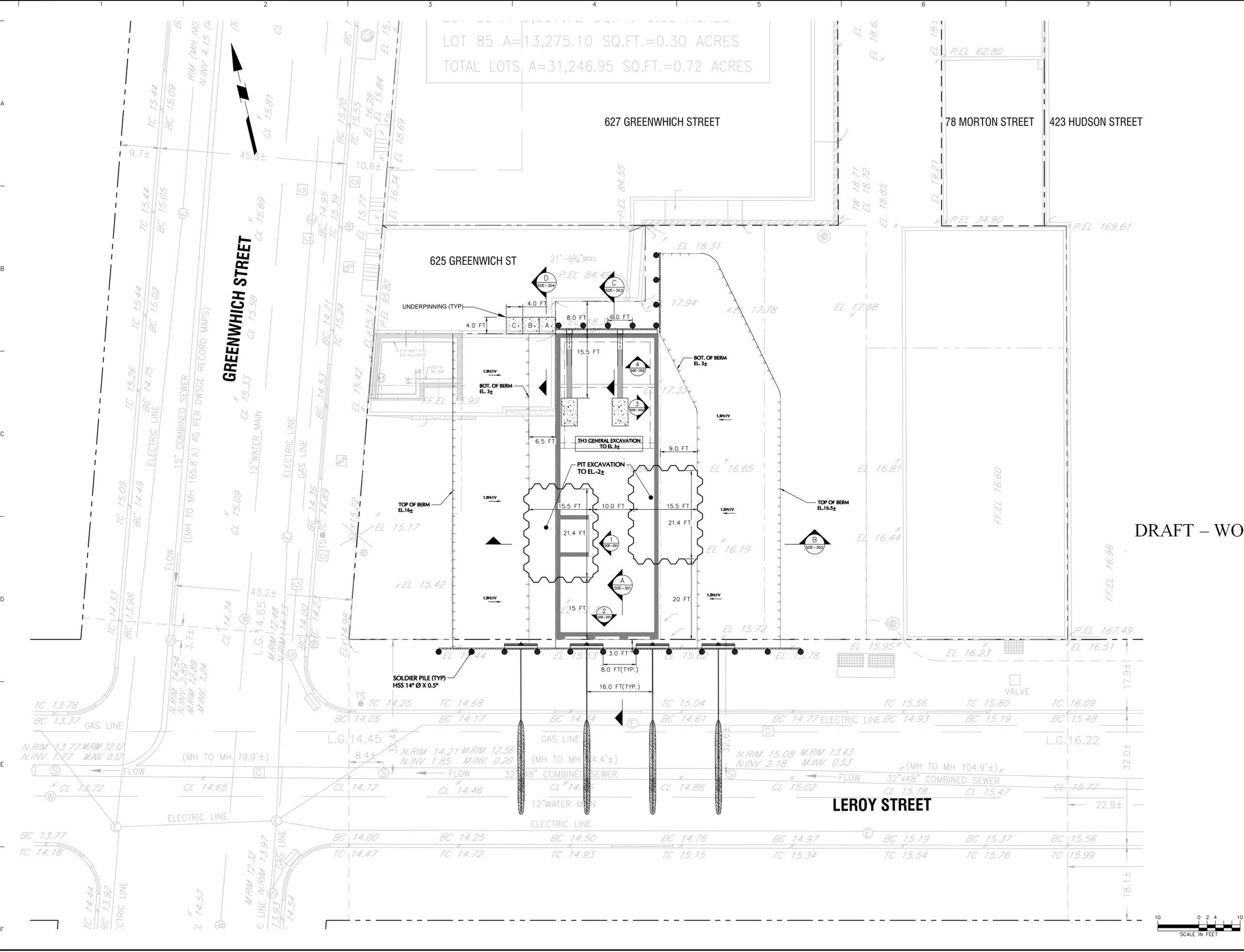
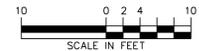
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Date 12/23/2015

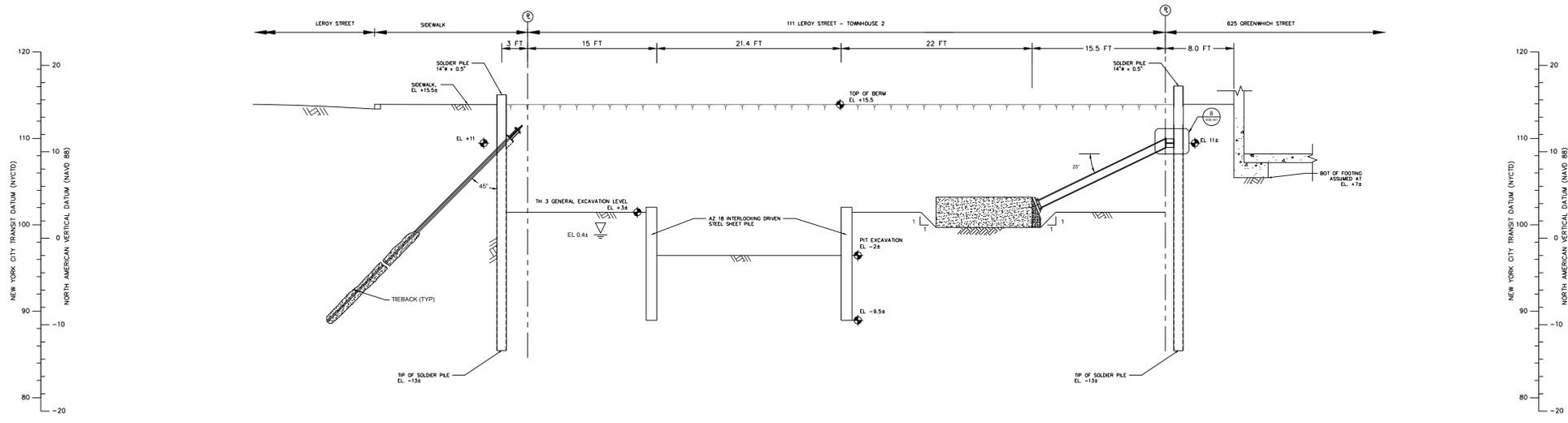
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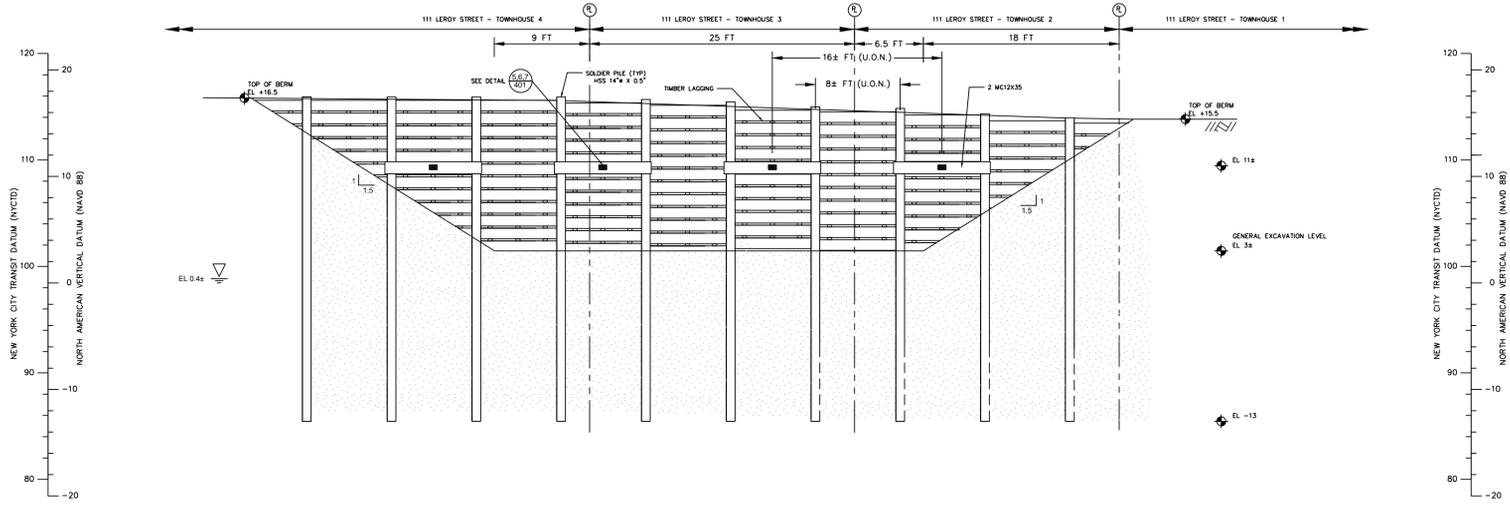
Submission Date 12/23/2015 Sheet 2 of 10



PROJECT NO. # SUBMISSION DATE: X LANGAN



① ELEVATION - WEST
SCALE : 1/8" = 1'



② ELEVATION - SOUTH
SCALE : 1/8" = 1'

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111 LEROY STREET

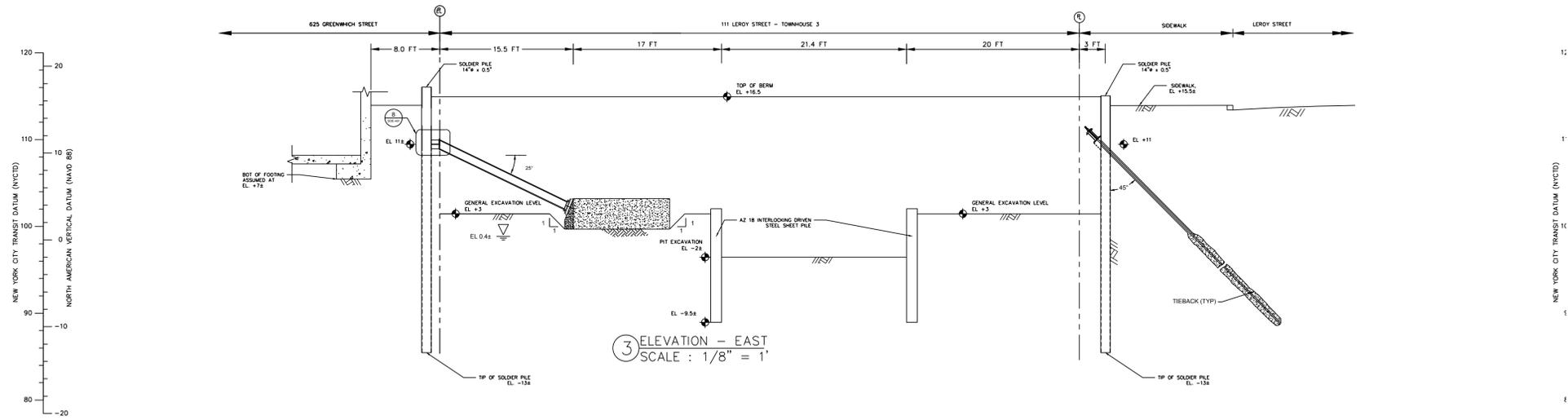
BLOCK No. 602, LOT No.83-85
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NEW YORK NEW YORK

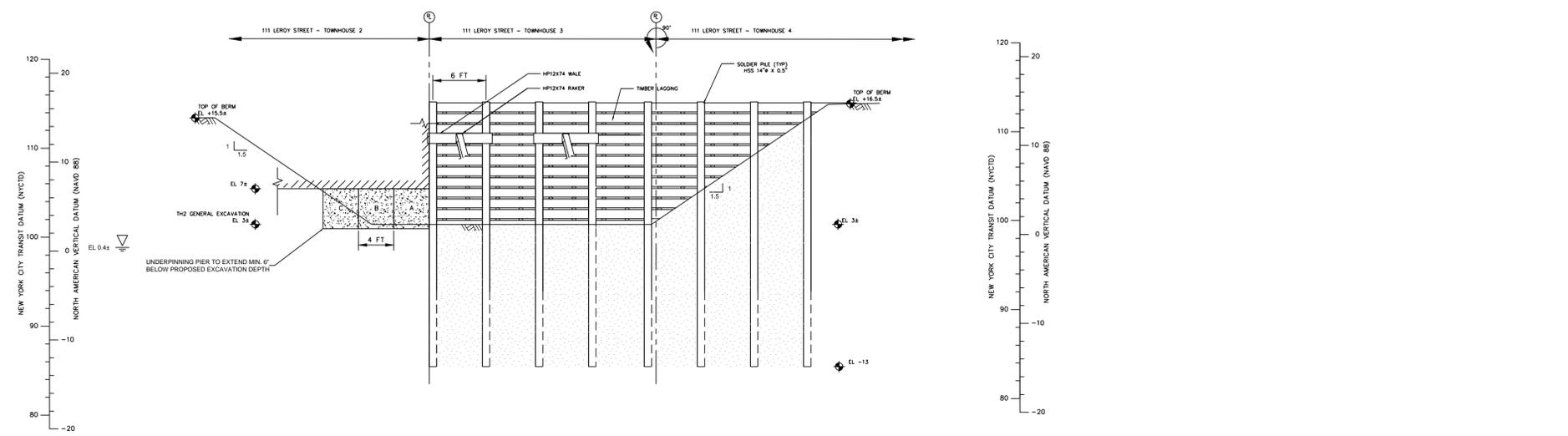
Drawing Title

ELEVATIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-201
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 3 of 10



3 ELEVATION - EAST
SCALE : 1/8" = 1'



4 ELEVATION - NORTH
SCALE : 1/8" = 1'

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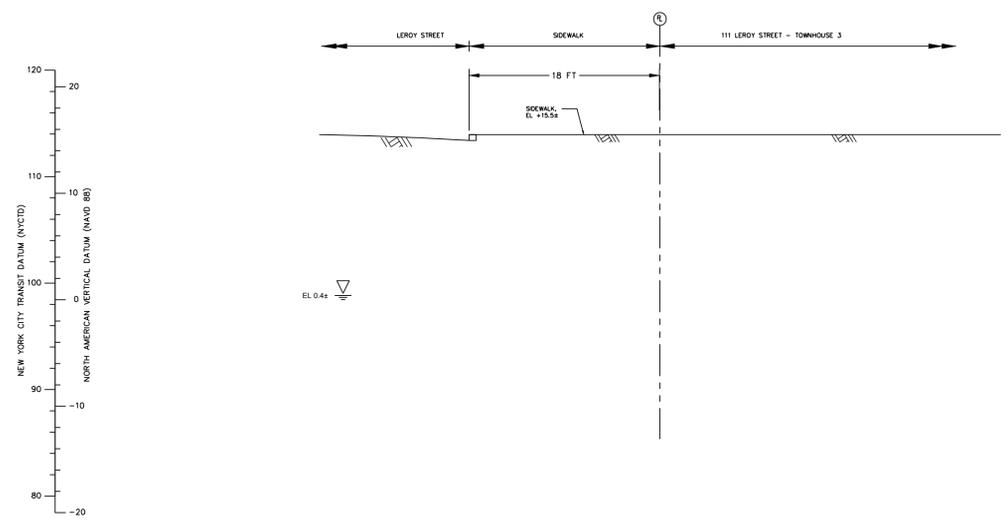
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MANHATTAN

NEW YORK NEW YORK

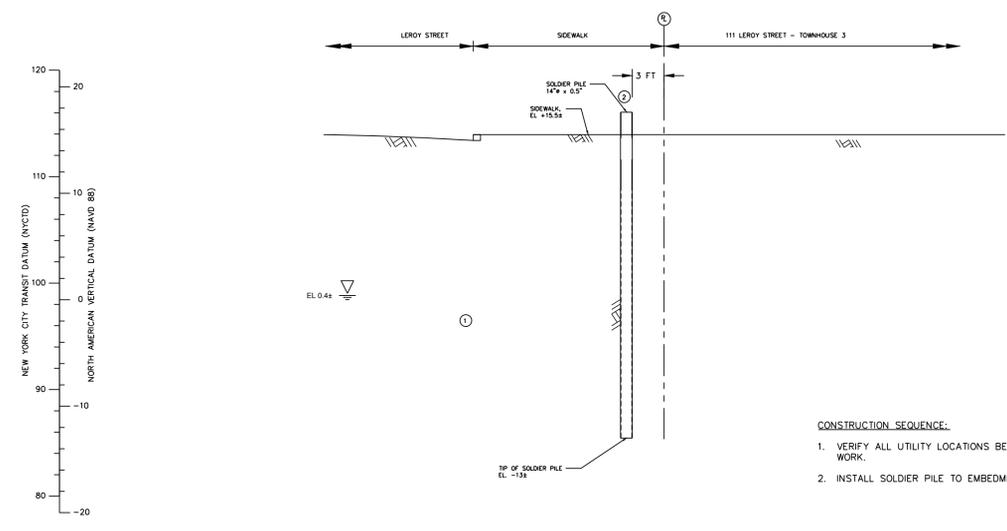
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ELEVATIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-201
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Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 4 of 10

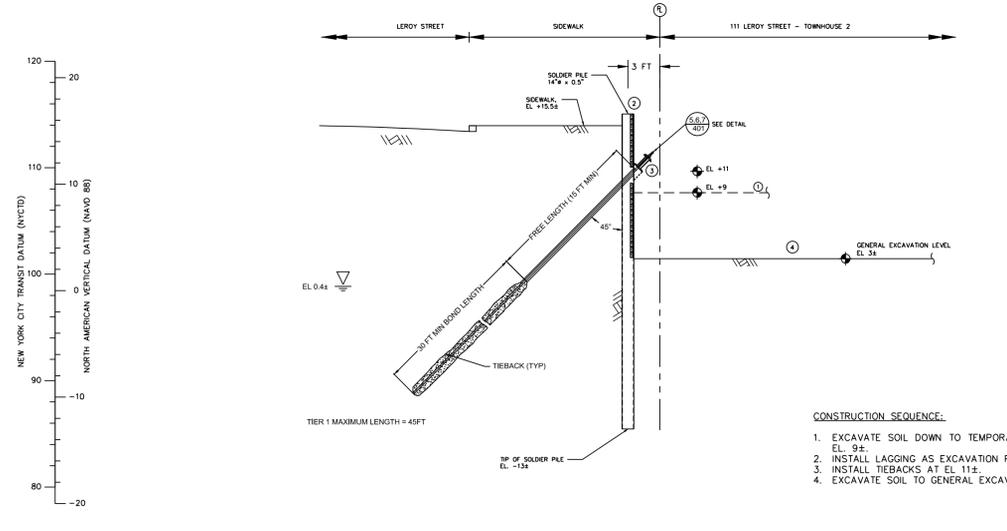


SECTION A - EXISTING CONDITIONS



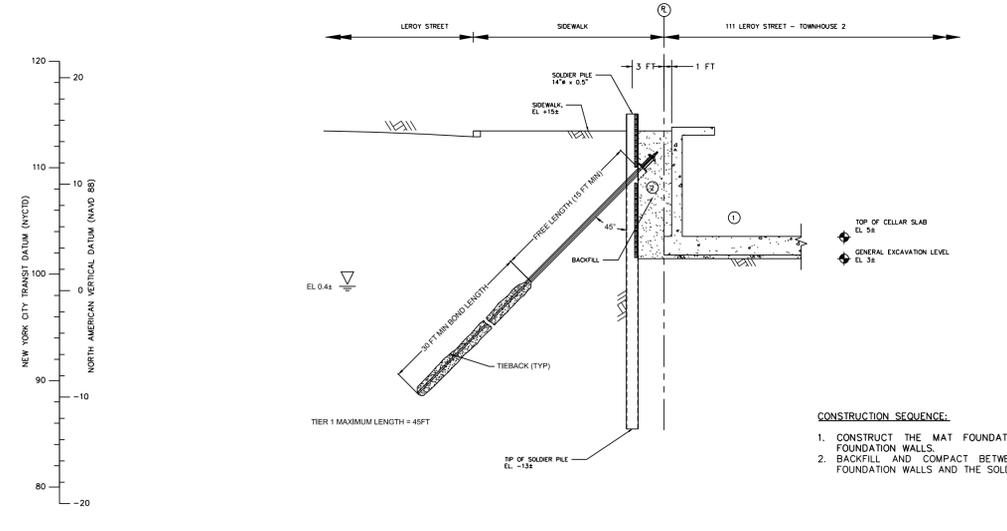
SECTION A - STAGE 1

- CONSTRUCTION SEQUENCE:**
1. VERIFY ALL UTILITY LOCATIONS BEFORE STARTING WORK.
 2. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH.



SECTION A - STAGE 2

- CONSTRUCTION SEQUENCE:**
1. EXCAVATE SOIL DOWN TO TEMPORARY LEVEL AT EL. 9.4.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. INSTALL TIEBACKS AT EL. 11.4.
 4. EXCAVATE SOIL TO GENERAL EXCAVATION LEVEL.



SECTION A - STAGE 2

- CONSTRUCTION SEQUENCE:**
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.
 2. BACKFILL AND COMPACT BETWEEN THE NEW FOUNDATION WALLS AND THE SOLDIER PILES.

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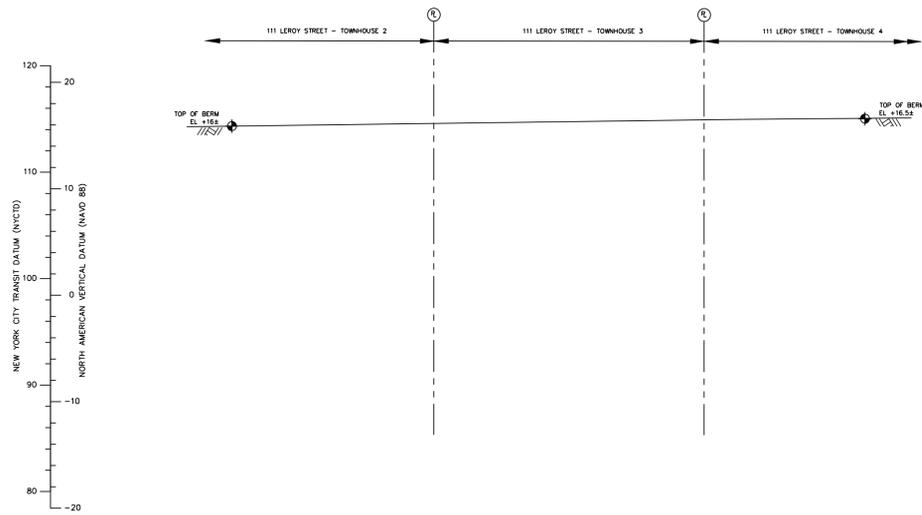
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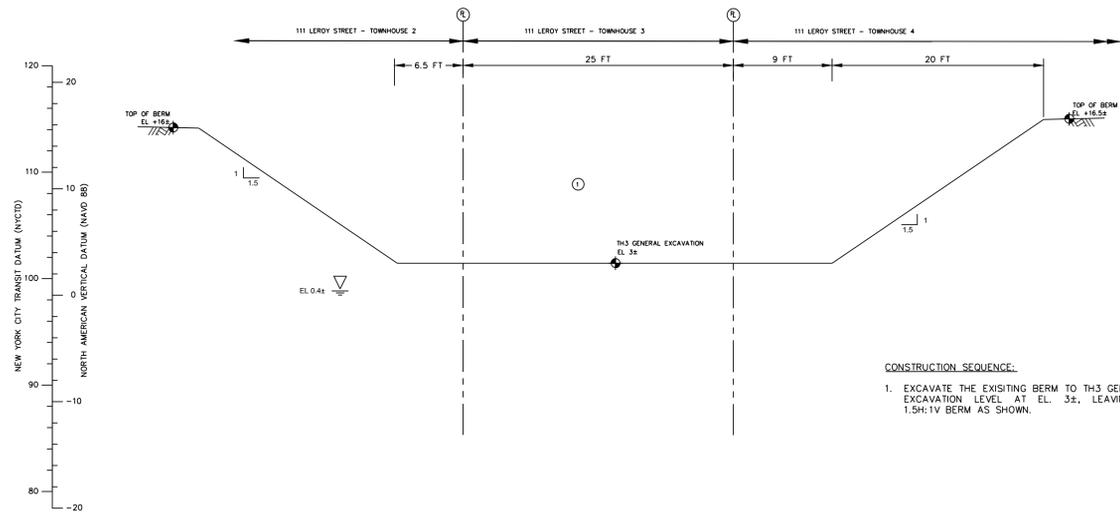
Project
111 LEROY STREET
BLOCK No. 602, LOT No.83-85
MANHATTAN
NEW YORK NEW YORK
Drawing Title
SECTIONS

Project No. 170370001	Drawing No.
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Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 5 of 10

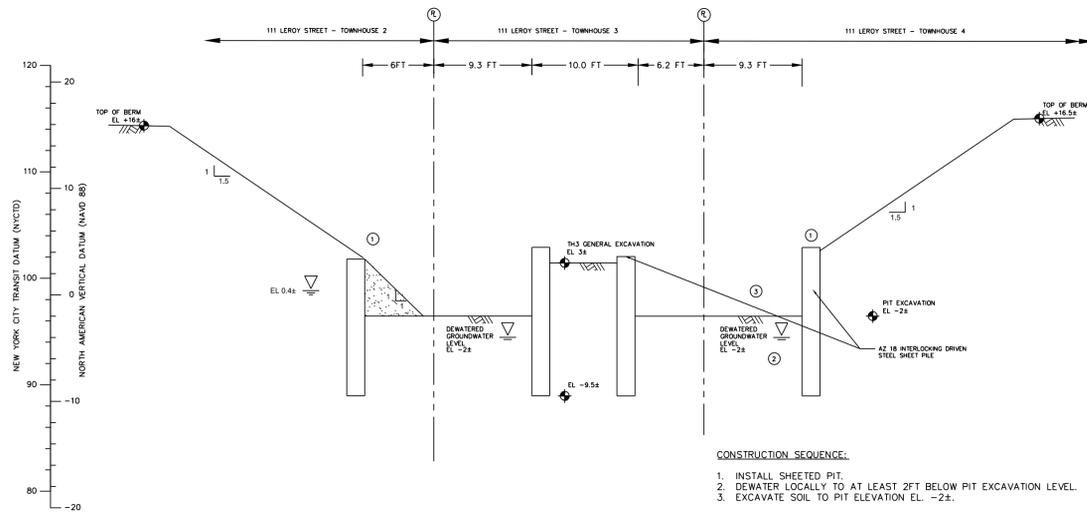
DRAFT - WORK IN PROGRESS



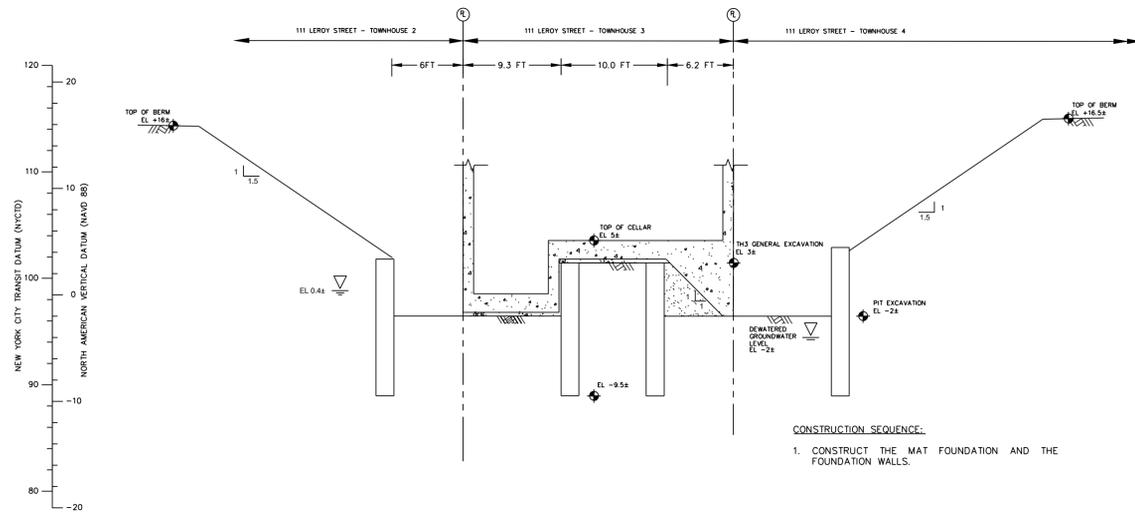
SECTION B - EXISTING CONDITIONS



SECTION B - STAGE 1



SECTION B - STAGE 2



SECTION B - STAGE 2

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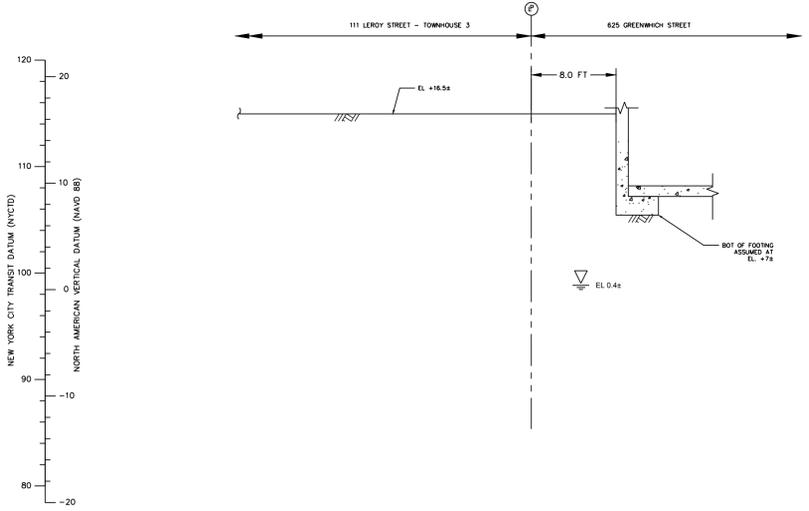
BLOCK No. 602, LOT No. 83-85
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NEW YORK NEW YORK

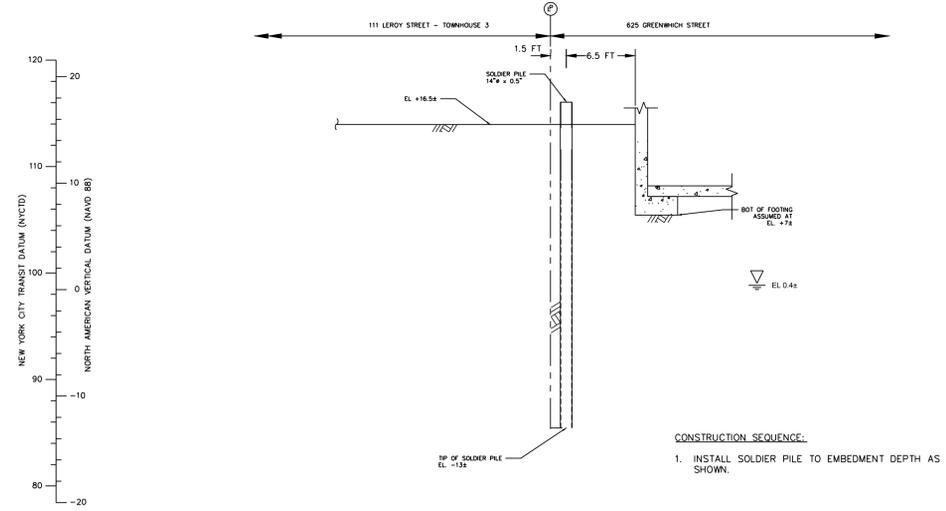
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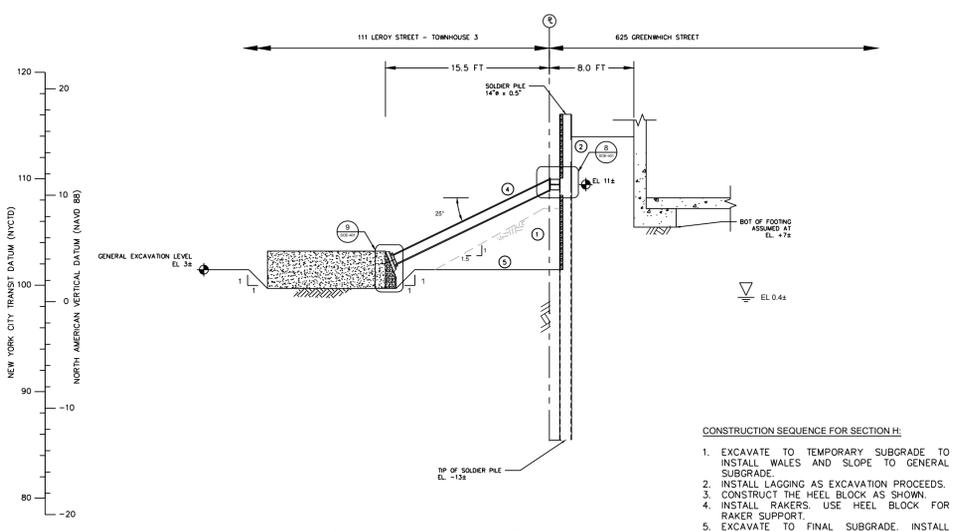
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Date 12/23/2015	SOE-302
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 6 of 10



SECTION D - EXISTING CONDITIONS

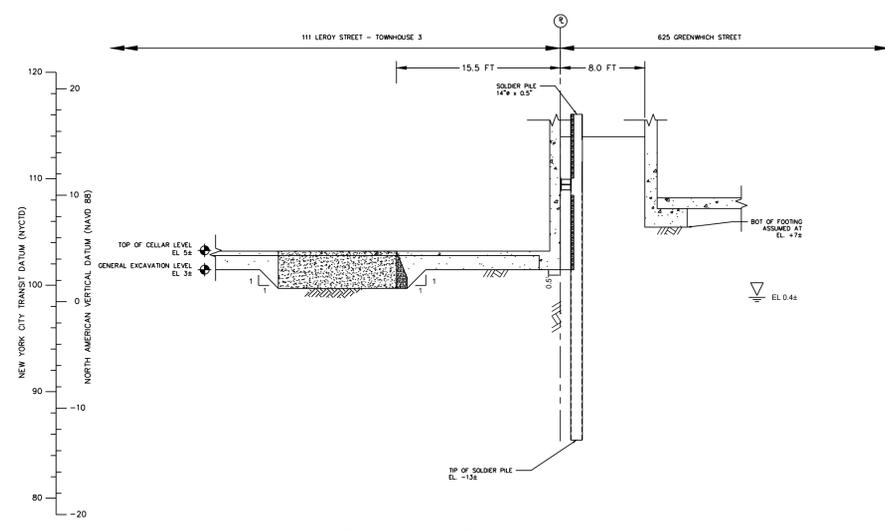


SECTION D - STAGE 1



- CONSTRUCTION SEQUENCE FOR SECTION H:
1. EXCAVATE TO TEMPORARY SUBGRADE TO INSTALL WALES AND SLOPE TO GENERAL SUBGRADE.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. CONSTRUCT THE HEEL BLOCK AS SHOWN.
 4. INSTALL RAKERS. USE HEEL BLOCK FOR RAKER SUPPORT.
 5. EXCAVATE TO FINAL SUBGRADE. INSTALL LAGGING AS EXCAVATION PROCEEDS.

SECTION D - STAGE 2



SECTION D - STAGE 2

PROFESSIONAL XXXXXXXXX
STATE LIC. No. XXXXX

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Project

111 LEROY STREET

BLOCK No. 602, LOT No. 83-85
MANHATTAN

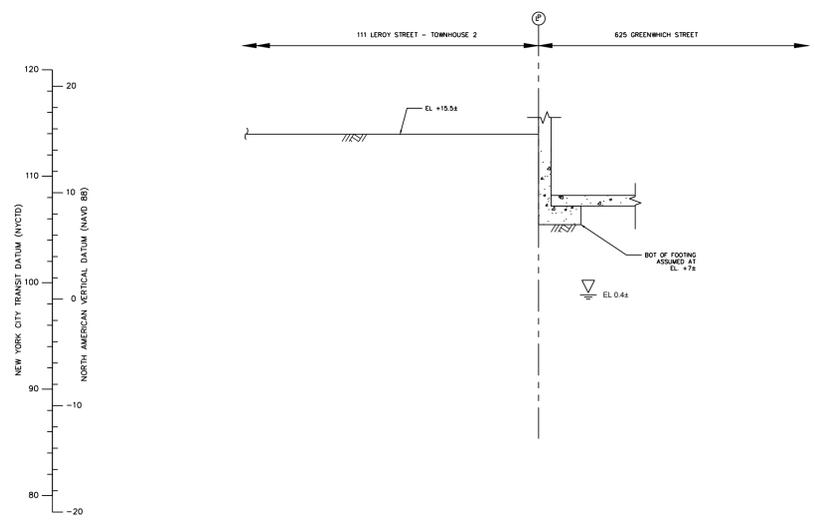
NEW YORK NEW YORK

Drawing Title

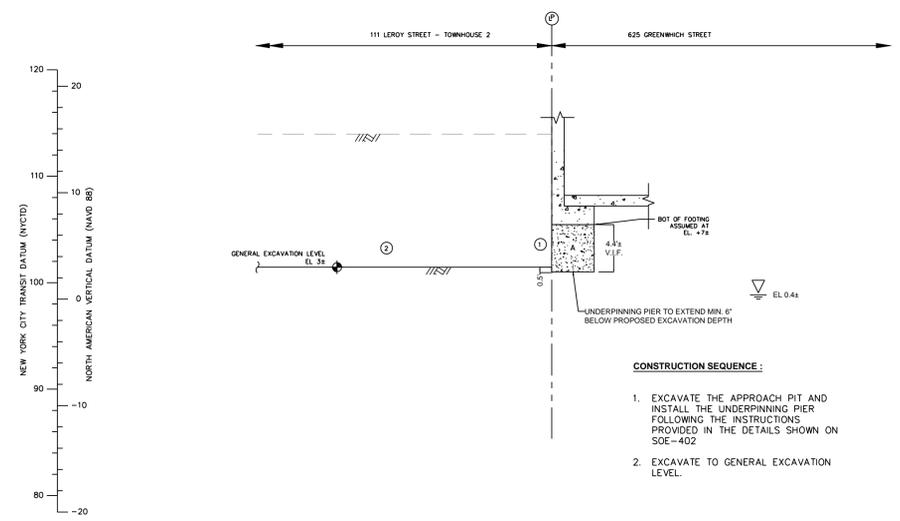
SECTIONS

Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-303
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 8 of 10

DRAFT - WORK IN PROGRESS



SECTION D - EXISTING CONDITIONS



- CONSTRUCTION SEQUENCE:**
1. EXCAVATE THE APPROACH PIT AND INSTALL THE UNDERPINNING PIER FOLLOWING THE INSTRUCTIONS PROVIDED IN THE DETAILS SHOWN ON SOE-402
 2. EXCAVATE TO GENERAL EXCAVATION LEVEL.

SECTION D - STAGE 1

DRAFT - WORK IN PROGRESS

PROFESSIONAL XXXXXXXXX
STATE LIC. No. XXXXX

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan Engineering, Inc.
Langan International LLC
Collectively known as Langan

Project

111 LEROY STREET

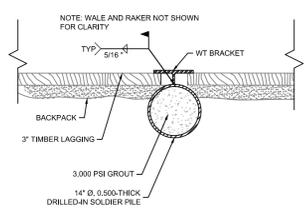
BLOCK No. 602, LOT No.83-85
MANHATTAN

NEW YORK NEW YORK

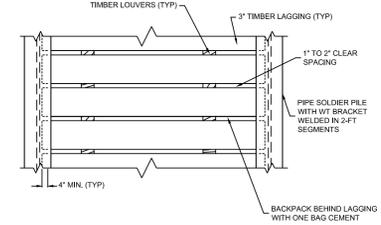
Drawing Title

SECTIONS

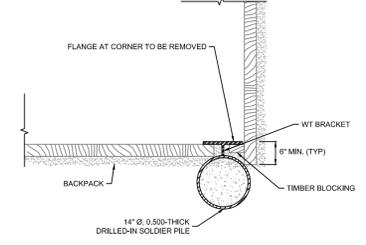
Project No. 170370001	Drawing No.
Date 12/23/2015	SOE-303
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 12/23/2015	Sheet 8 of 10



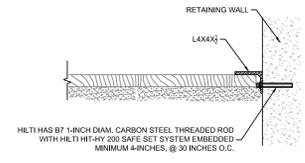
1 SOLDIER PILE TO LAGGING CONNECTION
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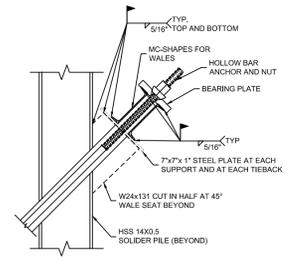
2 TYPICAL LAGGING INSTALLATION
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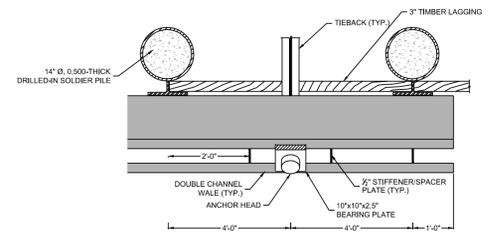
3 CORNER SOLDIER PILE DETAIL
SCALE: N.T.S.



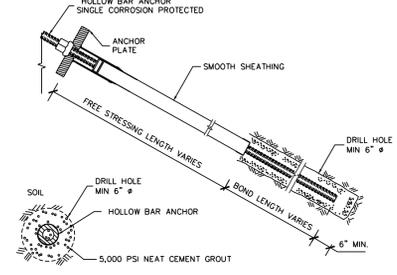
4 LAGGING SUPPORT AT STRUCTURE
SCALE: N.T.S.



5 TIEBACK SUPPORT DETAIL (SECTION)
SCALE: N.T.S.

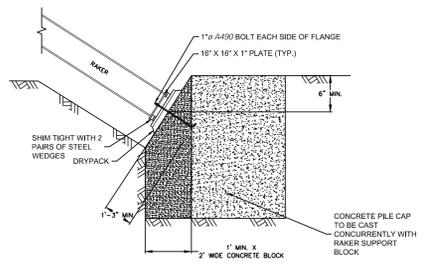


6 TIEBACK SUPPORT DETAIL (PLAN)
SCALE: N.T.S.

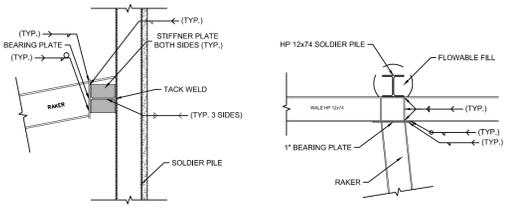


TIEBACK TYPE	WALL	DESIGN LOAD	LOCK-OFF	WALE	ANGLE
ANP H1200-64	WEST	85 KIP	85 KIP	(2) MC12x35	45°
ANP H1200-64	SOUTH	85 KIP	85 KIP	(2) MC12x35	45°

7 TIEBACK DETAIL
SCALE: N.T.S.



8 HEEL BLOCK CONNECTION DETAIL
SCALE: N.T.S.



9 WALLER RAKER SYSTEM DETAIL
SCALE: N.T.S.

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LANGAN INTERNATIONAL LLC
COLLECTIVELY KNOWN AS LANGAN

Project

111 LEROY STREET

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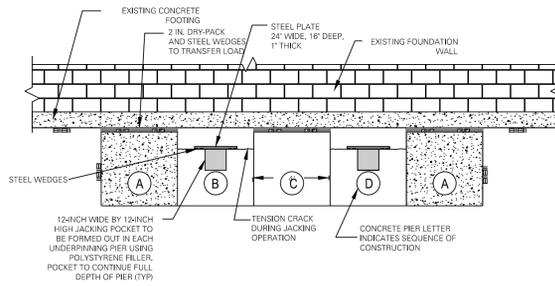
NEW YORK NEW YORK

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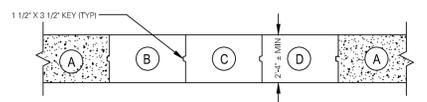
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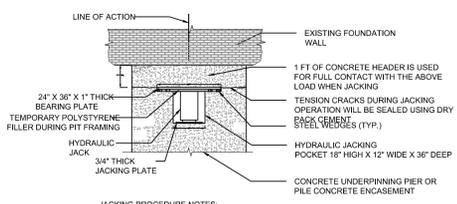
DRAFT – WORK IN PROGRESS



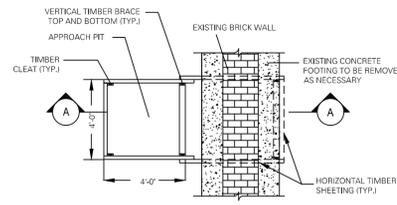
10 UNDERPINNING DETAILS - ELEVATION SCALE: N.T.S.



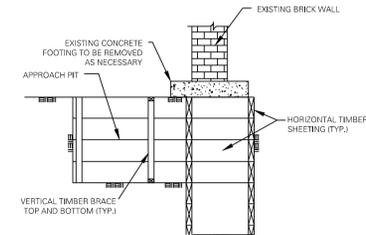
11 UNDERPINNING DETAILS - PLAN SCALE: N.T.S.



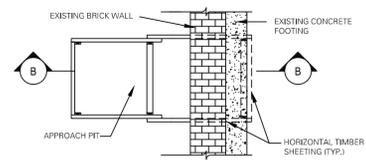
12 TYPICAL HYDRAULIC JACK POCKET DETAIL SCALE: N.T.S.



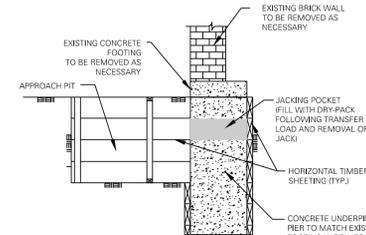
PLAN



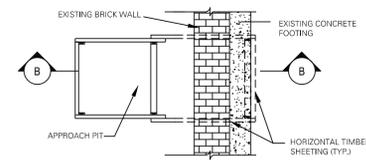
SECTION A-A STAGE 1



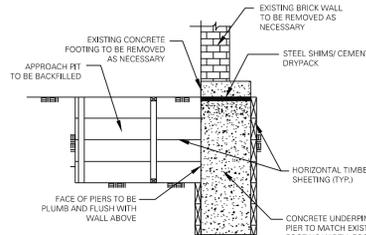
PLAN



SECTION B-B STAGE 2



PLAN



SECTION C-C STAGE 3

STAGE 1:
1. EXCAVATE APPROACH PIT FOR A. MINIMUM CLEAR DISTANCE BETWEEN SIMULTANEOUS PITS SHALL BE 12 FT.
2. CLEAN UNDERPINNING SUBGRADE AND RECOMPACT DISTURBED SOIL WITH MECHANICAL TAMPER. LOSS OF GROUND SHALL BE KEPT TO A MINIMUM BY BACKFILLING BEHIND THE BOARDS WHERE AND WHEN POSSIBLE WITH SALT HAY OR SAND/CEMENT GROUT PUMPED INTO THE VOIDS.

STAGE 2:
1. POUR CONCRETE UNDERPINNING PIER BELOW FOUNDATION. PROVIDE JACKING POCKET AS SHOWN IN DETAIL 10506-402.
2. AFTER CONCRETE ATTAINS 75% OF DESIGN STRENGTH, REFER TO STRUCTURAL DRAWINGS FOR DETAILS ON REMOVAL OF EXISTING FOUNDATION ELEMENTS.
3. AFTER REMOVAL OF PORTIONS OF EXISTING FOUNDATION ELEMENTS, JACK PIT TO CREATE HORIZONTAL TENSION CRACK IN THE CONCRETE UNDERPINNING. TRANSFER LOADS TO UNDERPINNING BY MEANS OF STEEL PLATES AND STEEL WEDGES. AFTER THE BUILDING LOAD IS TRANSFERRED TO THE UNDERPINNING PIER, THE SPACE SHALL BE FILLED WITH NON-SHRINK GROUT OR DRY-PACK MORTAR. GROUTS TO BE ONE PART PORTLAND CEMENT AND THREE PARTS FINE SAND WITH JUST ENOUGH WATER FOR HYDRATION.
4. REMOVE RING SHEETING AND BACKFILL APPROACH PIT.
5. REPEAT STAGES 1 AND 2 FOR PITS B, C, THEN D.

STAGE 3:
1. REMOVE PORTION OF EXISTING FOOTING AND BRICK WALL AS NEEDED FOR ELEVATOR PIT INSTALLATION.
2. REMOVE RING SHEETING AND BACKFILL APPROACH PIT.
REPEAT STAGES 1 THROUGH 3 FOR PITS B, C THEN D.

13 UNDERPINNING DETAILS - STAGING OF UNDERPINNING SCALE: N.T.S.

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DRAFT - WORK IN PROGRESS

GENERAL NOTES:

1. BASE PLAN EXTRACTED FROM A SURVEY BY JOSEPH NICHOLETI ASSOCIATES DATED 07/29/2014.
2. FOUNDATION BACKGROUND OBTAINED FROM DRAWING TITLED "FO0101.00 FOUNDATION PLAN" PREPARED BY SIMPSON GUMPERTZ & HEGER, DATED NOVEMBER 20,2015.
3. ELEVATIONS ARE WITH RESPECT TO THE TRANSIT AUTHORITY (TA) DATUM AND NORTH AMERICAN VERTICAL DATUM (NAVD) 1988, WHICH IS 1.106 FT ABOVE MEAN SEA LEVEL AT SANDY HOOK, NJ ESTABLISHED BY U.S. COAST AND GEODETIC SURVEY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HIS WORK SUCH THAT NO DAMAGE OR ADVERSE IMPACT TO THE NEIGHBORING BUILDINGS AND STRUCTURES RESULT, AND FOR PERFORMING NEIGHBORING/BORDERING BUILDING AND STRUCTURE MONITORING DURING SOIL EXCAVATION AND EXCAVATION SUPPORT CONSTRUCTION TO KEEP HIMSELF CONTINUOUSLY INFORMED OF THEIR CONDITIONS.
5. A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND RETAINED DIRECTLY BY THE OWNER SHALL PERFORM SPECIAL INSPECTION OF THE EXCAVATION SUPPORT WORK IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704.19 OF THE NYC BUILDING CODE.
6. CONTRACTOR SHALL NOTIFY NYCD0B AND NEIGHBORING BUILDING OWNERS 24 TO 48 HOURS PER THE REQUIREMENTS OF THE LATEST NYC BUILDING CODE PRIOR TO COMMENCEMENT OF EXCAVATION WORK.
7. CONTRACTOR SITE SAFETY AND SITE LOGISTICS ARE BEYOND THE SCOPE OF THESE DRAWINGS AND ARE NOT ADDRESSED HEREIN.
8. ON-SITE SUBSURFACE CONDITIONS INDICATED ON THE DRAWINGS ARE INFERRED BASED ON OBSERVATIONS IN THE DRILLED BORINGS. THE ACTUAL SUBSURFACE CONDITIONS MAY VARY.
9. THE MOST RECENT PROVISIONS OF THE NEW YORK CITY BUILDING CODE SHALL GOVERN THIS WORK.
10. THE WORK SHOWN IN THESE DRAWINGS SHALL BE EXECUTED IN CONJUNCTION WITH THOSE OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, SITE/CIVIL DRAWINGS AND DRAWINGS OF ALL OTHER DISCIPLINES. DISCREPANCIES BETWEEN THESE DRAWINGS AND THOSE OF OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
11. SHOULD FIELD CONDITIONS CONFLICT WITH THOSE INDICATED ON THESE DRAWINGS, THE DESIGNER SHALL BE IMMEDIATELY NOTIFIED TO DETERMINE IMPACTS TO THE DESIGN AND TO PROVIDE ANY REQUIRED DESIGN CHANGES.

MATERIALS

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992, GRADE 80, U.O.N.
2. FIELD WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1-06.
3. WELDING ELECTRODES SHALL BE E70XX, UNLESS NOTED OTHERWISE. FILLET WELDS SHALL NOT BE LESS THAN 3/16-INCH.

CONCRETE NOTES

1. CAST-IN-PLACE CONCRETE SHALL BE CONTROLLED CONCRETE AND SHALL HAVE A MINIMUM UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI U.O.N.
2. CONCRETE REINFORCEMENT BARS SHALL CONSIST OF DEFORMED BILLET STEEL MEETING ASTM A615, GRADE 60.
3. MECHANICAL SPLICES SHALL DEVELOP THE FULL TENSILE CAPACITY OF THE PARENT REINFORCING BAR.
4. MINIMUM CONCRETE COVER SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 318.
5. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 117.
6. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED A MINIMUM OF 3/4 INCHES.
7. REFER TO DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR CONCRETE REQUIREMENTS RELATED TO ALL OTHER WORK.

SHORING AND BRACING

SOLDIER PILE AND LAGGING NOTES

1. SOLDIER PILES SHALL NOT BE DRIVEN.
2. TEMPORARY CASING IS TO BE DRILLED TO THE TIP ELEVATION. THE SOLDIER PILE IS TO BE INSERTED AND GROUTED WITH A TREMIE PIPE. TEMPORARY CASING IS TO BE EXTRACTED DURING GROUTING.
3. SOLDIER PILES SHALL BE INSTALLED TO WITHIN 3-INCHES OF THEORETICAL LOCATION. SOLDIER PILES SHALL NOT DEVIATE MORE THAN 1 PERCENT FROM PLUMB. SOLDIER PILES DRILLED OUTSIDE OF THE ABOVE TOLERANCES SHALL BE EXTRACTED AND REDRILLED.
4. TIMBER SHALL BE CONSTRUCTION GRADE, ROUGH CUT FULL SIZE, SOUTHERN PINE WITH A MINIMUM ALLOWABLE BENDING STRESS OF 1950 PSI. TIMBER LAGGING SHALL BE INSTALLED FROM GROUND SURFACE TO EXTENT OF EXCAVATION (TOP-DOWN).

TIE-BACK INSTALLATION AND TESTING NOTES

1. ANCHOR SHALL CONSIST SINGLE-CORROSION PROTECTION HOLLOW BARS MANUFACTURED BY SAS STRESSSTEEL, INC., OR APPROVED EQUIVALENT. THE ULTIMATE STRENGTH SHALL BE 97 KSI.
2. PLATES AND OTHER MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36.
3. GROUT SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT (TYPE I, II, OR III) AND WATER. SUBMIT MIX DESIGN SUITABLE FOR ACHIEVING AN UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI.
4. PROVIDE FREE STRESSING LENGTHS AS INDICATED ON THE DRAWING SOE-401 USING SMOOTH PVC SHEATH.
5. THE ANCHOR BOND ZONE SHALL HAVE SHALL HAVE A MINIMUM NOMINAL DIAMETER OF AT LEAST 6 INCHES.
6. ANCHOR NUTS & COUPLERS SHALL BE CAPABLE OF DEVELOPING 100% OF THE ULTIMATE STRENGTH OF STRESS STEEL.
7. CARE SHALL BE TAKEN NOT TO DAMAGE THE ANCHOR TENDONS. KEEP THE ANCHOR TENDONS FREE OF DIRT OR OTHER DELETERIOUS SUBSTANCES.
8. WELDING SHALL NOT BE PERFORMED ON OR IN THE VICINITY OF ANCHOR TENDONS. ANCHOR TENDONS SHALL NOT BE USED AS A WELDING GROUND AND SHALL NOT BE EXCESSIVELY HEATED. CUTTING OF ANCHOR TENDONS SHALL BE PERFORMED WITH A METAL CUT-OFF SAW; TORCHES AND PLASMA CUTTERS SHALL NOT BE USED.
9. ALL ANCHORS SHALL BE PROOF TESTED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE POST-TENSIONING INSTITUTE (PTI) DOCUMENT "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS", PTI-DC35.1-04.

PROOF TEST: AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P, 1.33P, HOLD 1.33P FOR CREEP TEST, (WHERE P = DESIGN LOAD). RECORD READINGS AT 0.1,2,3,4,5,6 AND 10 MINUTES. RELEASE TO TRANSFER LOAD AND LOCK OFF ANCHOR NUT.
10. JACKING SHALL BE PERFORMED UTILIZING A CALIBRATED CENTER-HOLE JACK.
11. ANCHOR MOVEMENTS SHALL BE RECORDED WITH A DIAL INDICATOR CAPABLE OF READING TO INCREMENTS OF 0.001-INCH.
12. ANCHORS SHALL HAVE AN ALLOWABLE CAPACITY SUITABLE FOR ACHIEVING LOADS PRESCRIBED ON THE DRAWINGS. ANCHORS SHALL BE LOCKED OFF AT 80 PERCENT OF THE DESIGN VALUE UPON COMPLETION OF TESTING U.O.N.
13. CONTRACTOR SHALL SUBMIT ANCHOR SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCING ANCHOR INSTALLATION. SHOP DRAWINGS SHALL CONTAIN ANCHOR DETAILS, INSTALLATION & TESTING PROCEDURES.

EXCAVATION

INSTALLATION AND EXCAVATION SEQUENCE NOTES

1. CONTRACTOR SHALL FIELD LOCATE EXISTING STRUCTURES AND UTILITIES TO ENSURE NECESSARY CLEARANCES PRIOR TO START OF WORK.
2. PRE-TRENCH AS NECESSARY TO CLEAR OBSTRUCTIONS AND REMNANT FOUNDATION ELEMENTS WHICH MAY EFFECT THE INSTALLATION OF SOLDIER PILES.
3. GRADE SURFACE AS REQUIRED TO PROVIDE LEVEL WORKING PLATFORM.
4. SET DRILL RIG AT DESIRED LOCATION AND PLUMB THE PILE PRIOR TO DRILLING.
5. DRILL SOLDIER PILES TO REQUIRED MINIMUM DEPTHS. VIBRATION AND SURVEY MONITORING SHALL BE PERFORMED CONTINUOUSLY DURING DRILLING.
6. THE TOP OF ALL PILES SHALL EXTEND A MINIMUM OF 6 INCHES ABOVE THE GROUND SURFACE.
7. INSTALL BRACING AS REQUIRED INCLUDING DRILLING OF TIEBACKS.
8. CONTINUE EXCAVATION AS REQUIRED TO ACHIEVE SUBGRADE ELEVATION. PROVIDE TEMPORARY DEWATERING LOCALLY AS REQUIRED FOR INSTALLATION OF PERMANENT FOUNDATIONS.
9. INSTALL PERMANENT FOUNDATIONS AS REQUIRED.
10. BRACING SHALL REMAIN IN-PLACE UNTIL ADEQUATE SUPPORT IS PROVIDED BY PERMANENT STRUCTURAL ELEMENTS (I.E. FOUNDATION WALLS AND INTERMEDIATE FLOOR SLABS).
11. MONITORING OF WALL MOVEMENTS AND ADJACENT STRUCTURES SHALL BE PERFORMED CONTINUOUSLY DURING ALL OPERATIONS.

NEW YORK CITY SPECIAL INSPECTION NOTES

1. THE DESIGNATED PROFESSIONAL ENGINEERS FOR SPECIAL INSPECTIONS RETAINED BY THE OWNER SHALL PERFORM ON-SITE INSPECTION IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE REGULATIONS UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.
 - a. STRUCTURAL STEEL - WELDING PER SECTION 1704.3.1
 - b. CONCRETE - CAST-IN-PLACE PER SECTION 1704.4
 - c. SUBGRADE INSPECTION PER SECTION 1704.7.1
 - d. SUBSURFACE CONDITIONS - FILL PLACEMENT & IN-PLACE DENSITY PER SECTION 1704.7.2 AND 1704.7.3
 - e. EXCAVATIONS - SHEETING, SHORING AND BRACING PER SECTION 1704.20.2
 - f. CONCRETE DESIGN MIX PER SECTION 1905.3 AND 1913.5
 - g. CONCRETE SAMPLING AND TESTING PER SECTION 1905.6 AND 1913.10
 - h. FINAL PROGRESS INSPECTION PER SECTION 28-116.2.4.2, 110.5, DIRECTIVE 14 OF 1975 AND 1 RCNY 101-10
2. THE SPECIAL INSPECTION ENGINEERS ARE RESPONSIBLE FOR FILING AND OBTAINING APPROVAL OF ALL STATEMENTS, TEST AND INSPECTION REPORTS.
3. ALL TESTING AGENCY REPORTS SHALL BE SIGNED AND SEALED BY A N.Y.S. LICENSED P.E.
4. NYC BUILDING CODE REQUIRES NOTICE OF COMMENCEMENT OF WORK BEFORE ANY WORK BEGINS ON AN ITEM OF CONSTRUCTION REQUIRING SPECIAL INSPECTION. ALL PERSONS RESPONSIBLE FOR SUCH SPECIAL INSPECTION SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO SUCH COMMENCEMENT.

NEW YORK CITY BUILDING DEPARTMENT NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE 2014 NEW YORK CITY BUILDING CODE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF BUILDINGS AND ADJACENT PROPERTY OWNER'S 24-48 HOURS PRIOR TO COMMENCING EXCAVATION AS PER SECTION 3304.3.1 AND 3304.3.2 OF THE NEW YORK CITY BUILDING CODE.
3. ALL WORK CONTAINED HEREIN SHALL BE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE. SPECIAL INSPECTORS SHALL MEET THE QUALIFICATIONS OUTLINED IN THE RULES OF THE CITY OF NEW YORK, SECTION 101-06, DATED 6-30-08. REQUIRED SPECIAL INSPECTIONS INCLUDE:
 - A. SOILS AS PER SECTION 1704.7
 - a. FILL PLACEMENT
 - b. IN-PLACE SOIL DENSITY
 - B. CONCRETE CONSTRUCTION AS PER SECTION 1704.4
 - a. CONCRETE MIX DESIGN
 - b. CONCRETE CYLINDERS AND TESTING
 - c. CAST-IN-PLACE CONCRETE INCLUDING PLACEMENT OF FORM WORK AND REINFORCING STEEL
 - C. EXCAVATION - SHEETING, SHORING AND BRACING AS PER 1704.19 AND 3304.4.1
 - E. STEEL CONSTRUCTION AS PER SECTION 1704.3
 - a. WELDING
4. IN CONFORMANCE WITH THE NEW YORK CITY BUILDING CODE, THE OWNER'S ENGINEER SHALL BE RETAINED TO CONDUCT THE REQUIRED SPECIAL INSPECTIONS.
5. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SCOPE AND DETAILED REQUIREMENTS FOR INSPECTIONS AND TESTING.
6. REFER TO THE PROJECT SPECIFICATIONS AND DRAWINGS FOR INSPECTION AND TESTING REQUIREMENTS PERTAINING TO WORK OF OTHER TRADES.

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NEW YORK NEW YORK

Drawing Title

**SUPPORT OF
EXCAVATION PLAN**

Project No.

170370001

Drawing No.

SOE-001

Date

01/04/2016

Scale

N.T.S.

Drawn By

Checked By

RK

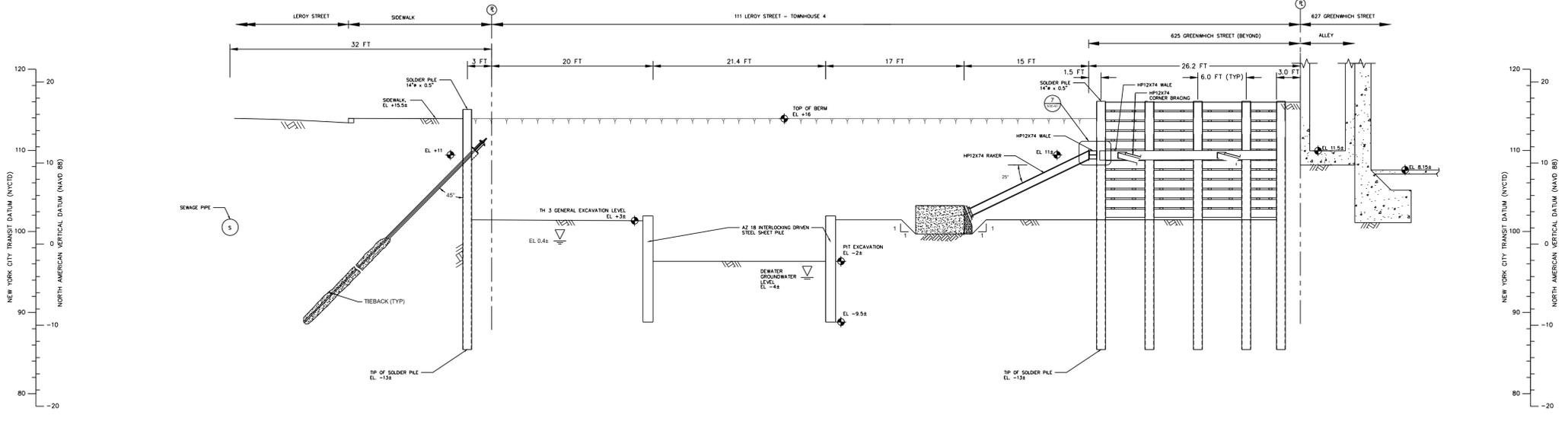
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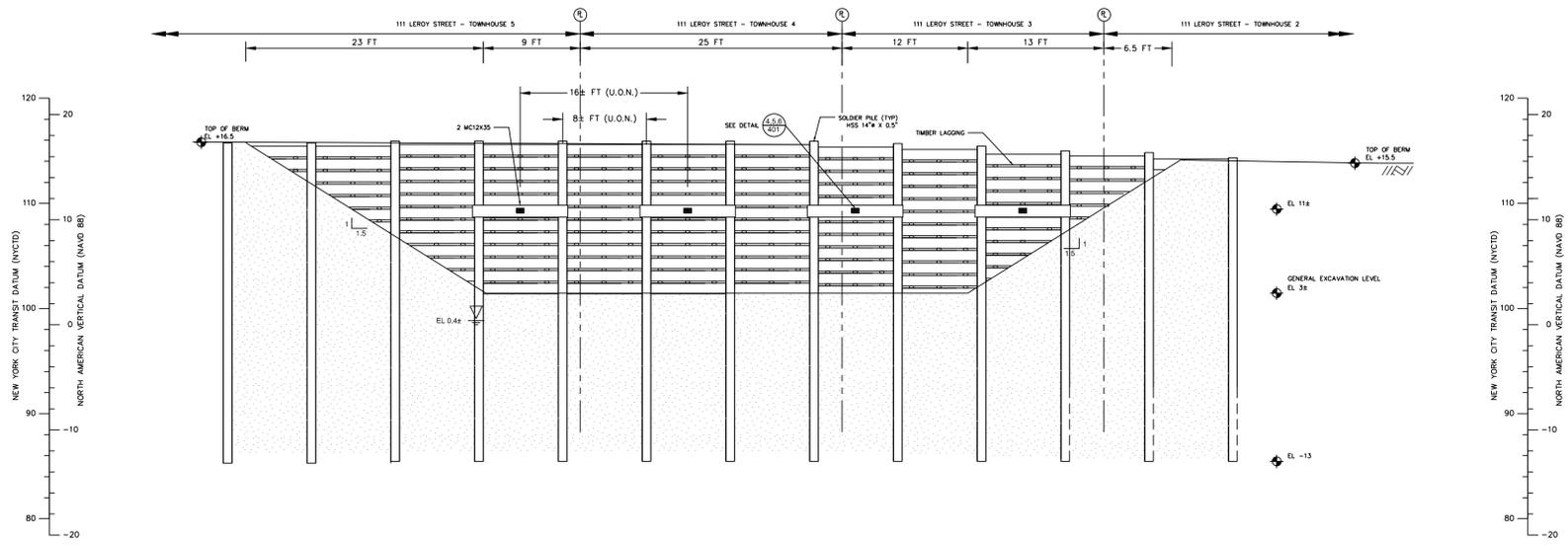
01/04/2016

Sheet 1 of 9

DRAFT - WORK IN PROGRESS



① ELEVATION - WEST
SCALE : 1/8" = 1'



② ELEVATION - SOUTH
SCALE : 1/8" = 1'

DRAFT - WORK IN PROGRESS

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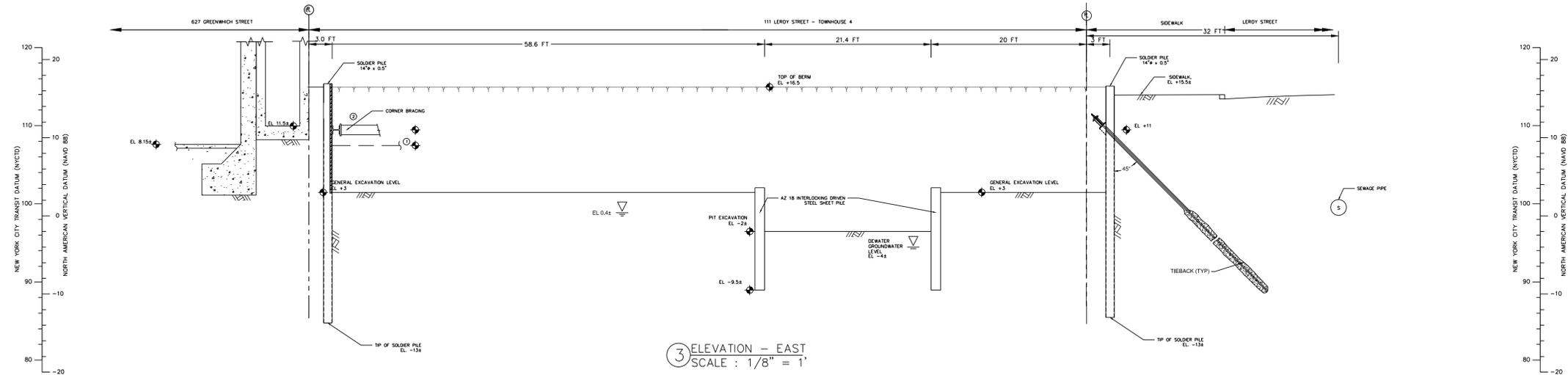
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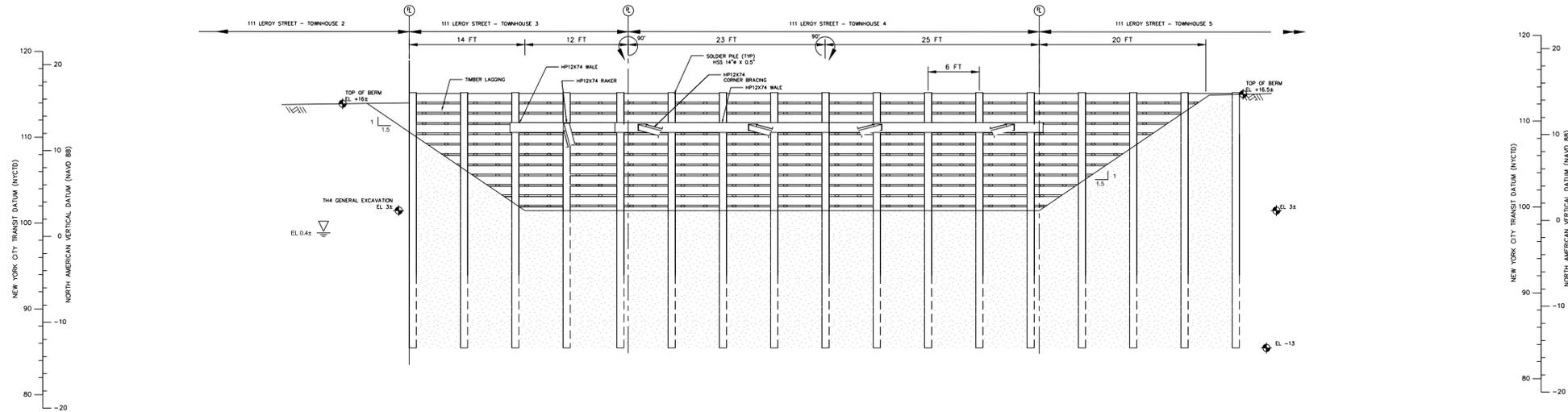
Drawing Title

ELEVATIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-201
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 3 of 9



3 ELEVATION - EAST
SCALE : 1/8" = 1'



4 ELEVATION - NORTH
SCALE : 1/8" = 1'

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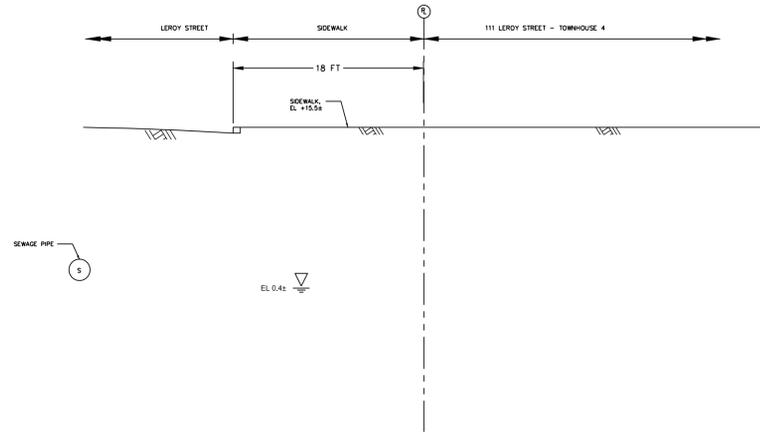
LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C., S.A.
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LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
LANGAN S.R.L.
LANGAN INTERNATIONAL LLC
Collectively known as Langan

Project
111 LEROY STREET
BLOCK No. 602, LOT No.83-85
MANHATTAN
NEW YORK NEW YORK
Drawing Title
ELEVATIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-202
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 4 of 9

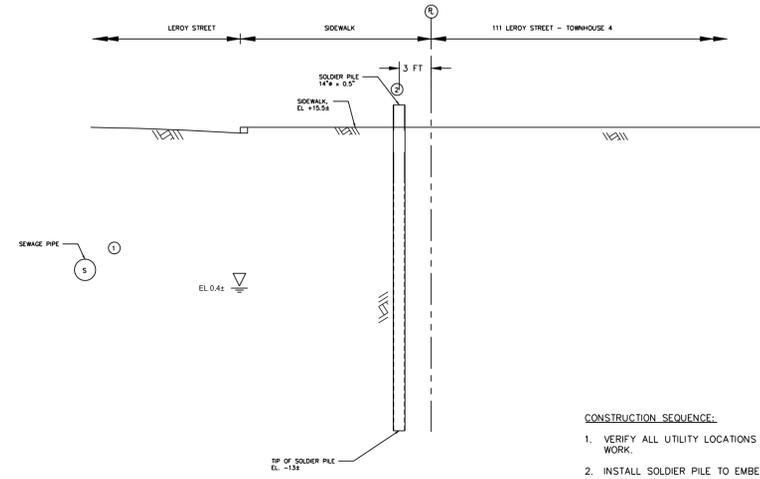
DRAFT - WORK IN PROGRESS

NEW YORK CITY TRANSIT DATUM (NYCTD)
NORTH AMERICAN VERTICAL DATUM (NAVD 88)



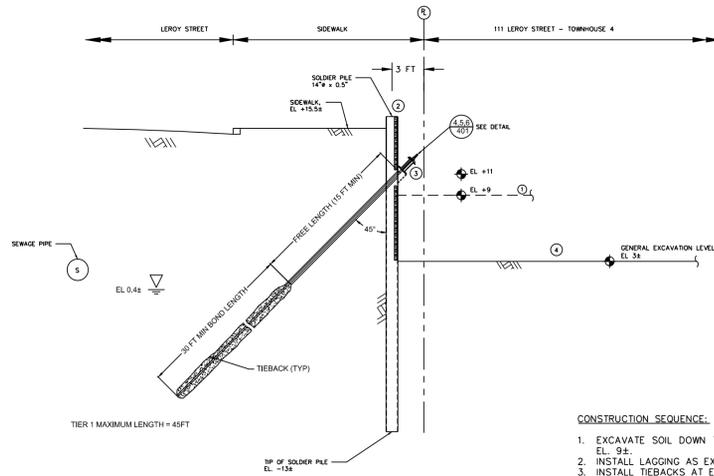
SECTION A - EXISTING CONDITIONS

NEW YORK CITY TRANSIT DATUM (NYCTD)
NORTH AMERICAN VERTICAL DATUM (NAVD 88)



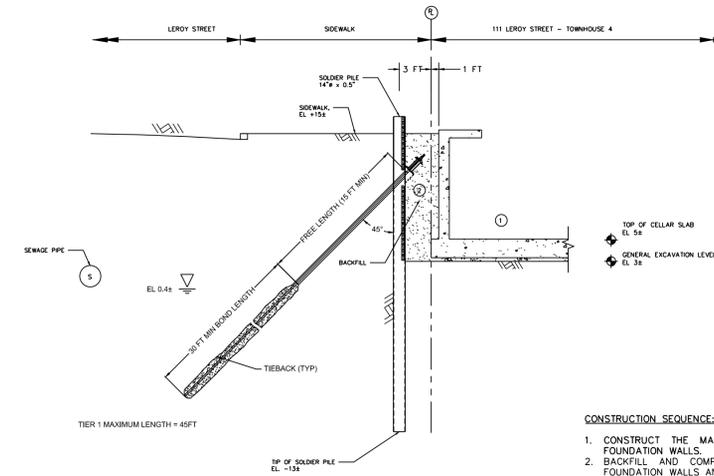
SECTION A - STAGE 1

NEW YORK CITY TRANSIT DATUM (NYCTD)
NORTH AMERICAN VERTICAL DATUM (NAVD 88)



SECTION A - STAGE 2

NEW YORK CITY TRANSIT DATUM (NYCTD)
NORTH AMERICAN VERTICAL DATUM (NAVD 88)



SECTION A - STAGE 3

- CONSTRUCTION SEQUENCE:
1. VERIFY ALL UTILITY LOCATIONS BEFORE STARTING WORK.
 2. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH.

- CONSTRUCTION SEQUENCE:
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.
 2. BACKFILL AND COMPACT BETWEEN THE NEW FOUNDATION WALLS AND THE SOLDIER PILES.

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111 LEROY STREET

**BLOCK No. 602, LOT No.83-85
MANHATTAN**

NEW YORK NEW YORK

Drawing Title

SECTIONS

Project No.

170370001

Date

01/04/2016

Scale

1/8"=1'

Drawn By

Checked By

RK

JMD

Submission Date

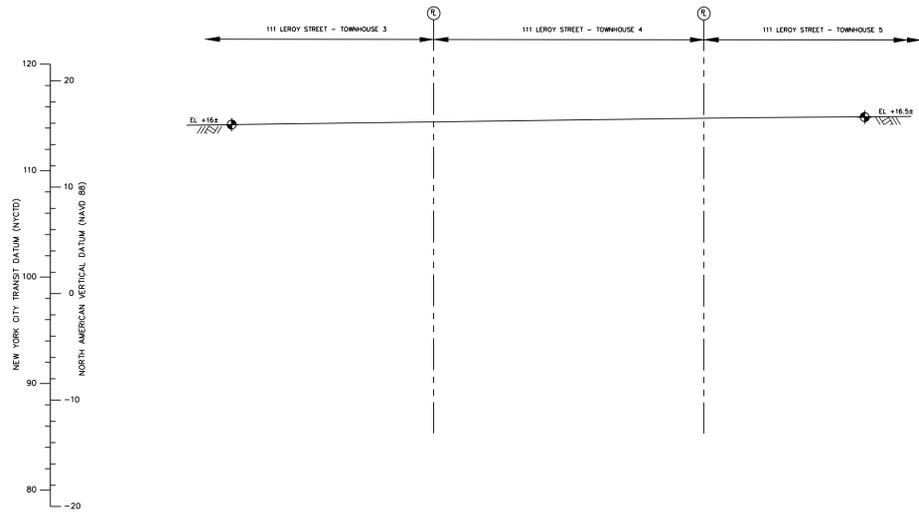
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Drawing No.

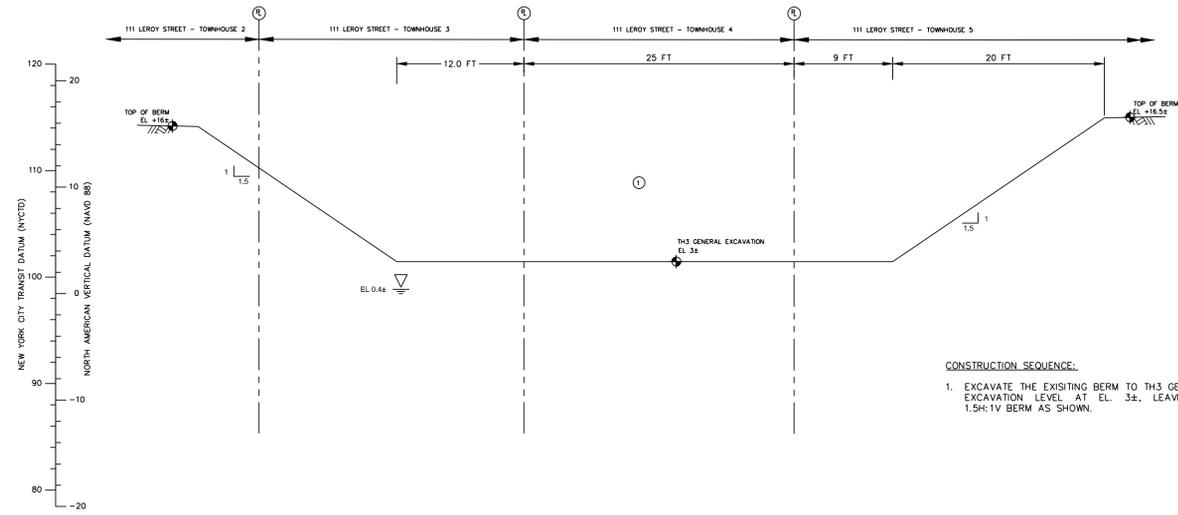
SOE-301

Sheet 5 of 9

DRAFT - WORK IN PROGRESS

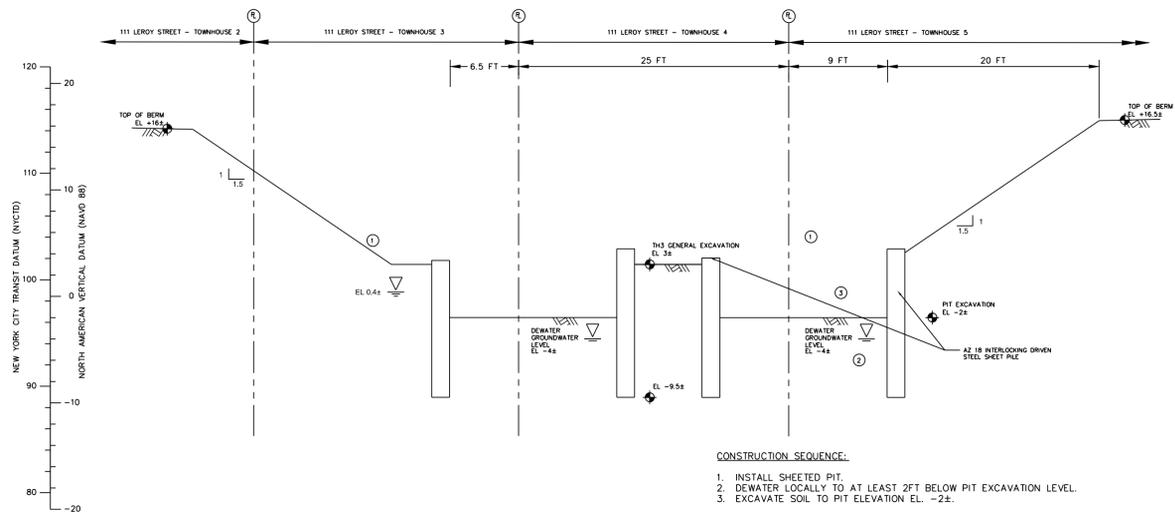


SECTION B - EXISTING CONDITIONS



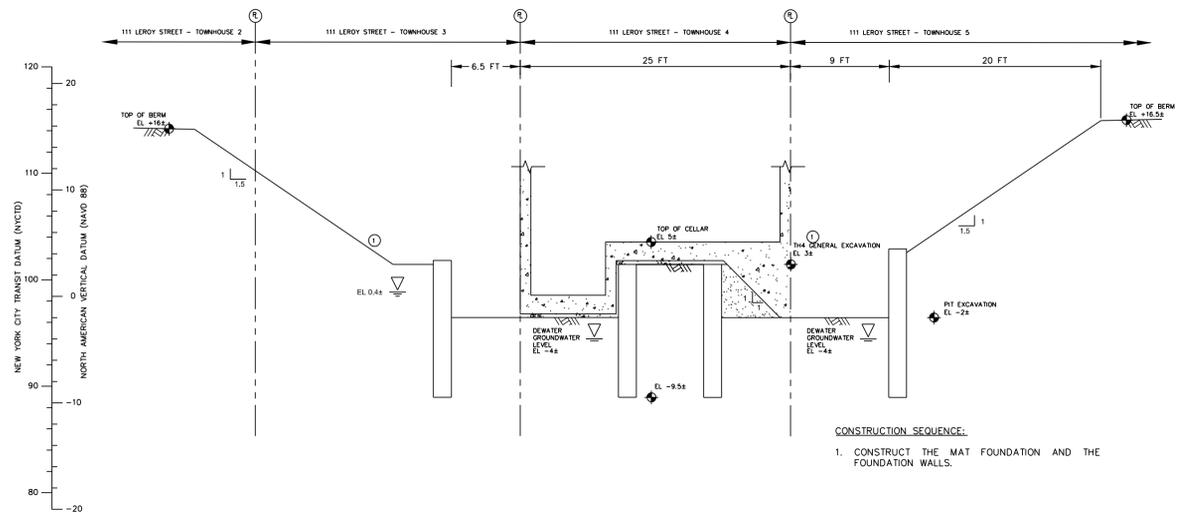
SECTION B - STAGE 1

CONSTRUCTION SEQUENCE:
 1. EXCAVATE THE EXISTING BERM TO TH3 GENERAL EXCAVATION LEVEL AT EL. 3.4, LEAVING A 1.5H:1V BERM AS SHOWN.



SECTION B - STAGE 2

CONSTRUCTION SEQUENCE:
 1. INSTALL SHEETED PIT
 2. DEWATER LOCALLY TO AT LEAST 2FT BELOW PIT EXCAVATION LEVEL.
 3. EXCAVATE SOIL TO PIT ELEVATION EL. -2.2.



SECTION B - STAGE 3

CONSTRUCTION SEQUENCE:
 1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.

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111 LEROY STREET

BLOCK No. 602, LOT No.83-85
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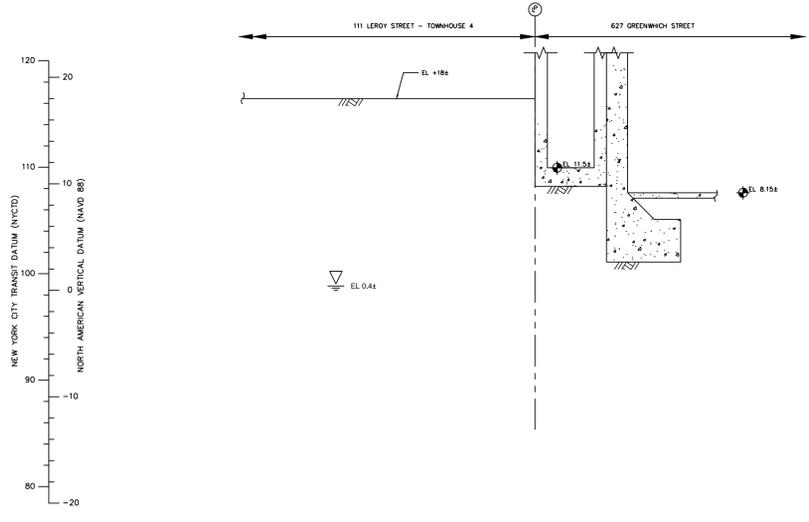
NEW YORK NEW YORK

Drawing Title

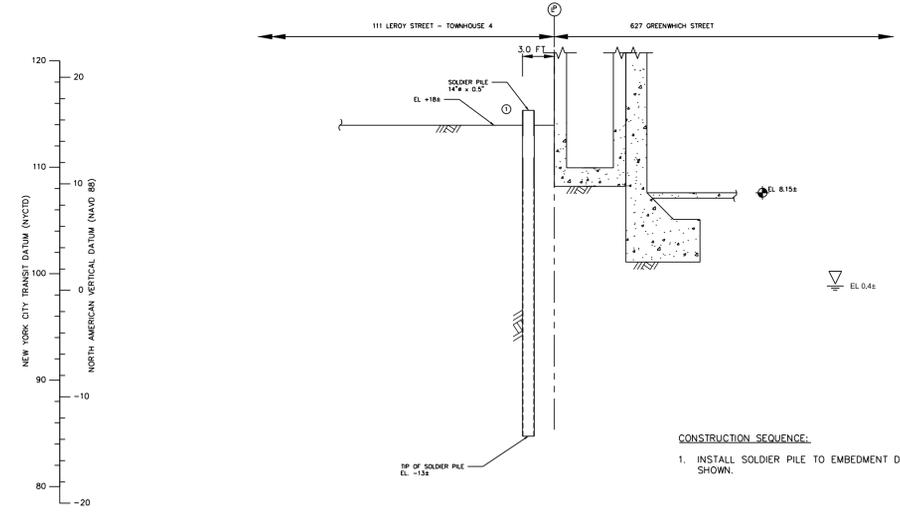
SECTIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-302
Scale 1/8"=1'	
Drawn By RK	
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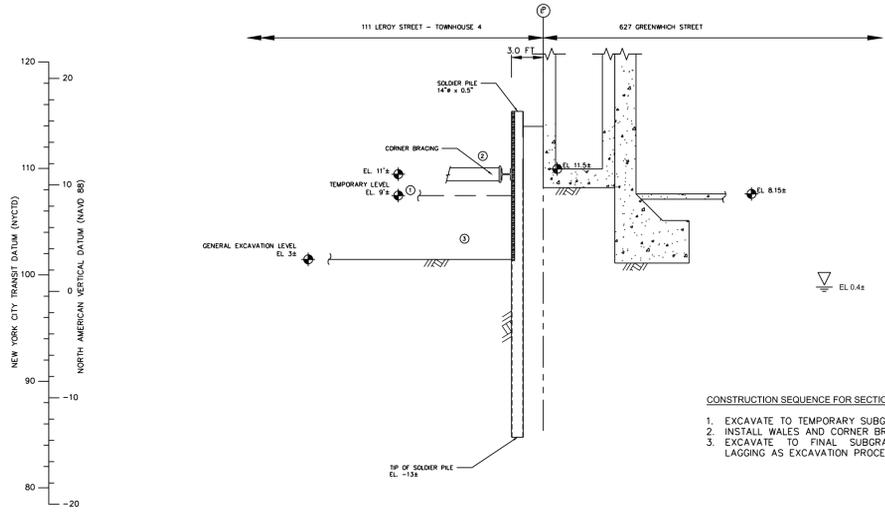
DRAFT - WORK IN PROGRESS



SECTION C - EXISTING CONDITIONS

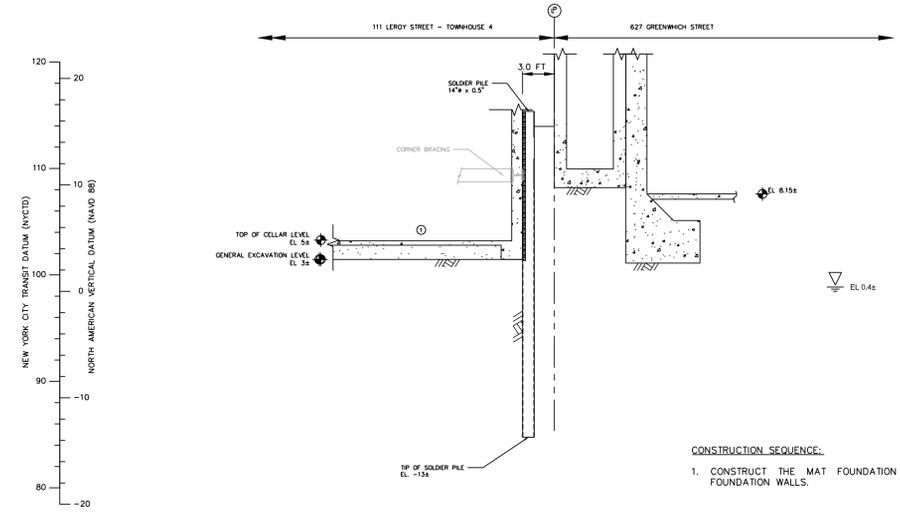


SECTION C - STAGE 1



SECTION C - STAGE 2

- CONSTRUCTION SEQUENCE FOR SECTION H:**
1. EXCAVATE TO TEMPORARY SUBGRADE.
 2. INSTALL WALES AND CORNER BRACING.
 3. EXCAVATE TO FINAL SUBGRADE. INSTALL LAGGING AS EXCAVATION PROCEEDS.



SECTION C - STAGE 4

- CONSTRUCTION SEQUENCE:**
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.

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BLOCK No. 602, LOT No.83-85
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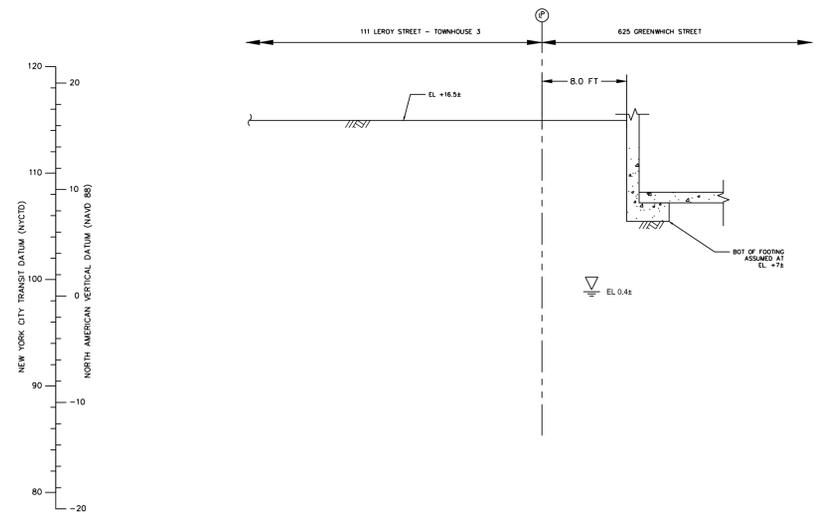
NEW YORK NEW YORK

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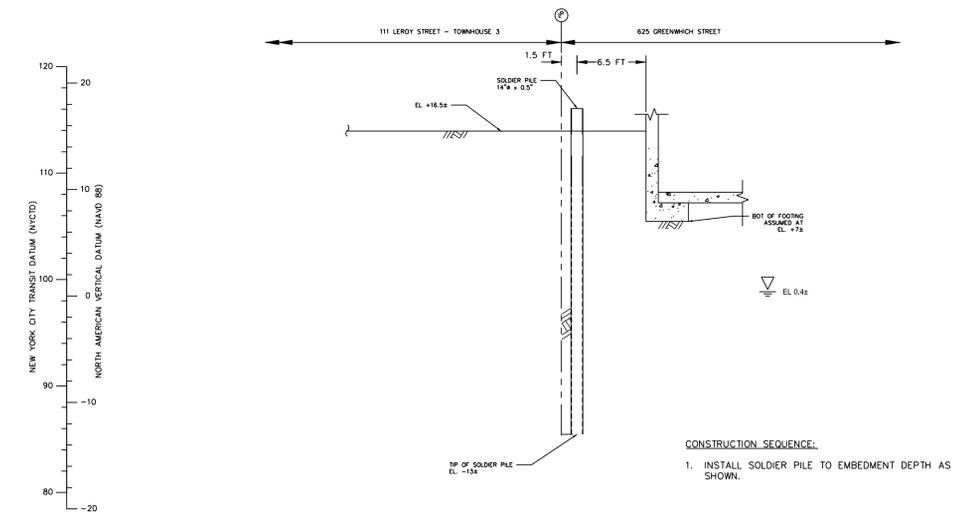
SECTIONS

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Scale 1/8"=1'	
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Checked By JMD	Sheet 7 of 9
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DRAFT - WORK IN PROGRESS

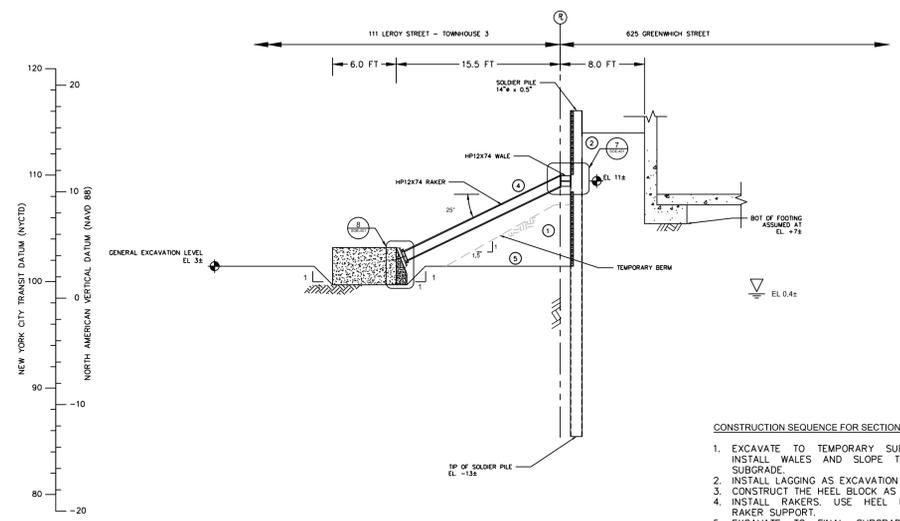


SECTION D - EXISTING CONDITIONS



SECTION D - STAGE 1

CONSTRUCTION SEQUENCE:
1. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH AS SHOWN.



SECTION D - STAGE 2

CONSTRUCTION SEQUENCE FOR SECTION H:
1. EXCAVATE TO TEMPORARY SUBGRADE TO INSTALL WALES AND SLOPE TO GENERAL SUBGRADE.
2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
3. CONSTRUCT THE HEEL BLOCK AS SHOWN.
4. INSTALL RAKERS, USE HEEL BLOCK FOR RAKER SUPPORT.
5. EXCAVATE TO FINAL SUBGRADE. INSTALL LAGGING AS EXCAVATION PROCEEDS.

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BLOCK No. 602, LOT No.83-85
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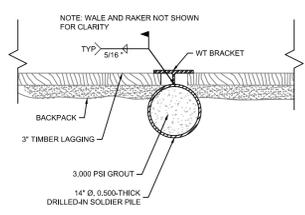
NEW YORK NEW YORK

Drawing Title

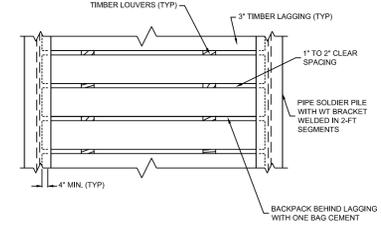
SECTIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-304
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 8 of 9

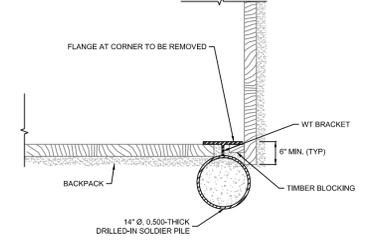
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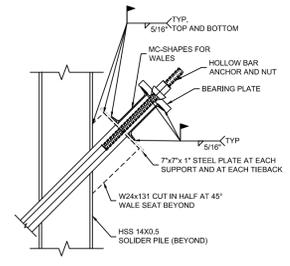
1 SOLDIER PILE TO LAGGING CONNECTION
SCALE: N.T.S.



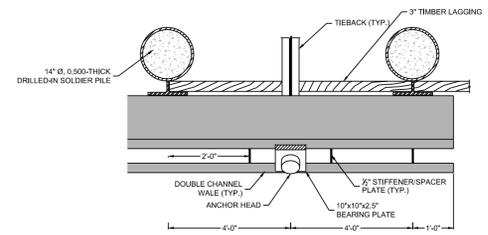
2 TYPICAL LAGGING INSTALLATION
SCALE: N.T.S.



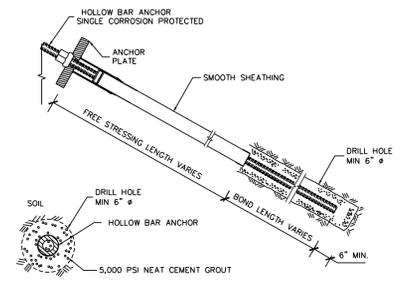
3 CORNER SOLDIER PILE DETAIL
SCALE: N.T.S.



4 TIEBACK SUPPORT DETAIL (SECTION)
SCALE: N.T.S.

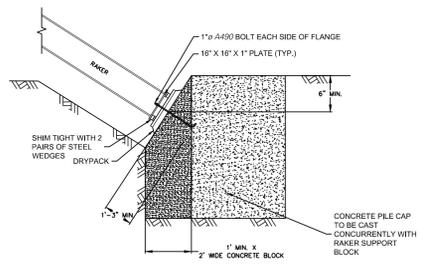


5 TIEBACK SUPPORT DETAIL (PLAN)
SCALE: N.T.S.

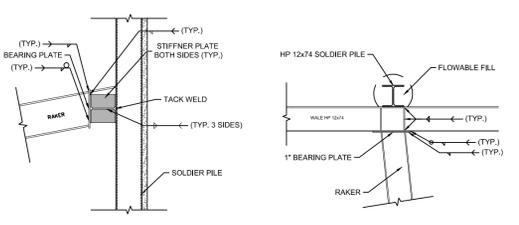


TIEBACK TYPE	WALL	DESIGN LOAD	LOCK-OFF	WALE	ANGLE
ANP H1200-64	WEST	85 KIP	85 KIP	(2) MC12x35	45°
ANP H1200-64	SOUTH	85 KIP	85 KIP	(2) MC12x35	45°

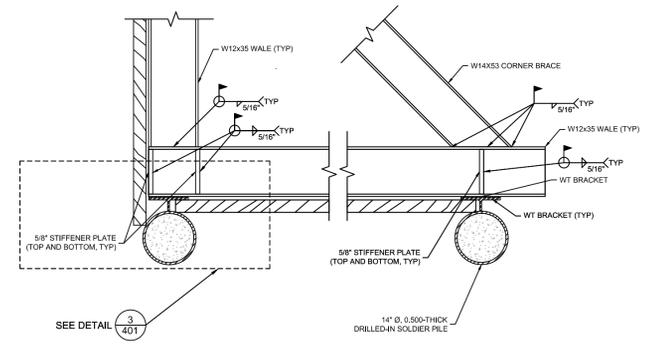
6 TIEBACK DETAIL
SCALE: N.T.S.



7 HEEL BLOCK CONNECTION DETAIL
SCALE: N.T.S.



8 WALLER RAKER SYSTEM DETAIL
SCALE: N.T.S.



9 CORNER BRACE DETAIL
SCALE: N.T.S.

DRAFT - WORK IN PROGRESS

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Project

111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

NEW YORK NEW YORK

Drawing Title

DETAILS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-401
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 9 of 9

GENERAL NOTES:

1. BASE PLAN EXTRACTED FROM A SURVEY BY JOSEPH NICHOLETI ASSOCIATES DATED 07/29/2014.
2. FOUNDATION BACKGROUND OBTAINED FROM DRAWING TITLED "FO0101.00 FOUNDATION PLAN" PREPARED BY SIMPSON GUMPERTZ & HEGER, DATED NOVEMBER 20,2015.
3. ELEVATIONS ARE WITH RESPECT TO THE TRANSIT AUTHORITY (TA) DATUM AND NORTH AMERICAN VERTICAL DATUM (NAVD) 1988, WHICH IS 1.106 FT ABOVE MEAN SEA LEVEL AT SANDY HOOK, NJ ESTABLISHED BY U.S. COAST AND GEODETIC SURVEY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HIS WORK SUCH THAT NO DAMAGE OR ADVERSE IMPACT TO THE NEIGHBORING BUILDINGS AND STRUCTURES RESULT, AND FOR PERFORMING NEIGHBORING/BORDERING BUILDING AND STRUCTURE MONITORING DURING SOIL EXCAVATION AND EXCAVATION SUPPORT CONSTRUCTION TO KEEP HIMSELF CONTINUOUSLY INFORMED OF THEIR CONDITIONS.
5. A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND RETAINED DIRECTLY BY THE OWNER SHALL PERFORM SPECIAL INSPECTION OF THE EXCAVATION SUPPORT WORK IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704.19 OF THE NYC BUILDING CODE.
6. CONTRACTOR SHALL NOTIFY NYCD0B AND NEIGHBORING BUILDING OWNERS 24 TO 48 HOURS PER THE REQUIREMENTS OF THE LATEST NYC BUILDING CODE PRIOR TO COMMENCEMENT OF EXCAVATION WORK.
7. CONTRACTOR SITE SAFETY AND SITE LOGISTICS ARE BEYOND THE SCOPE OF THESE DRAWINGS AND ARE NOT ADDRESSED HEREIN.
8. ON-SITE SUBSURFACE CONDITIONS INDICATED ON THE DRAWINGS ARE INFERRED BASED ON OBSERVATIONS IN THE DRILLED BORINGS. THE ACTUAL SUBSURFACE CONDITIONS MAY VARY.
9. THE MOST RECENT PROVISIONS OF THE NEW YORK CITY BUILDING CODE SHALL GOVERN THIS WORK.
10. THE WORK SHOWN IN THESE DRAWINGS SHALL BE EXECUTED IN CONJUNCTION WITH THOSE OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, SITE/CIVIL DRAWINGS AND DRAWINGS OF ALL OTHER DISCIPLINES. DISCREPANCIES BETWEEN THESE DRAWINGS AND THOSE OF OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
11. SHOULD FIELD CONDITIONS CONFLICT WITH THOSE INDICATED ON THESE DRAWINGS, THE DESIGNER SHALL BE IMMEDIATELY NOTIFIED TO DETERMINE IMPACTS TO THE DESIGN AND TO PROVIDE ANY REQUIRED DESIGN CHANGES.

MATERIALS

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992, GRADE 80, U.O.N.
2. FIELD WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1-06.
3. WELDING ELECTRODES SHALL BE E70XX, UNLESS NOTED OTHERWISE. FILLET WELDS SHALL NOT BE LESS THAN 3/16-INCH.

CONCRETE NOTES

1. CAST-IN-PLACE CONCRETE SHALL BE CONTROLLED CONCRETE AND SHALL HAVE A MINIMUM UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI U.O.N.
2. CONCRETE REINFORCEMENT BARS SHALL CONSIST OF DEFORMED BILLET STEEL MEETING ASTM A615, GRADE 60.
3. MECHANICAL SPLICES SHALL DEVELOP THE FULL TENSILE CAPACITY OF THE PARENT REINFORCING BAR.
4. MINIMUM CONCRETE COVER SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 318.
5. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 117.
6. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED A MINIMUM OF 3/4 INCHES.
7. REFER TO DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR CONCRETE REQUIREMENTS RELATED TO ALL OTHER WORK.

SHORING AND BRACING

SOLDIER PILE AND LAGGING NOTES

1. SOLDIER PILES SHALL NOT BE DRIVEN.
2. TEMPORARY CASING IS TO BE DRILLED TO THE TIP ELEVATION. THE SOLDIER PILE IS TO BE INSERTED AND GROUTED WITH A TREMIE PIPE. TEMPORARY CASING IS TO BE EXTRACTED DURING GROUTING.
3. SOLDIER PILES SHALL BE INSTALLED TO WITHIN 3-INCHES OF THEORETICAL LOCATION. SOLDIER PILES SHALL NOT DEVIATE MORE THAN 1 PERCENT FROM PLUMB. SOLDIER PILES DRILLED OUTSIDE OF THE ABOVE TOLERANCES SHALL BE EXTRACTED AND REDRILLED.
4. TIMBER SHALL BE CONSTRUCTION GRADE, ROUGH CUT FULL SIZE, SOUTHERN PINE WITH A MINIMUM ALLOWABLE BENDING STRESS OF 1950 PSI. TIMBER LAGGING SHALL BE INSTALLED FROM GROUND SURFACE TO EXTENT OF EXCAVATION (TOP-DOWN).

TIE-BACK INSTALLATION AND TESTING NOTES

1. ANCHOR SHALL CONSIST SINGLE-CORROSION PROTECTION HOLLOW BARS MANUFACTURED BY SAS STRESSSTEEL, INC., OR APPROVED EQUIVALENT. THE ULTIMATE STRENGTH SHALL BE 97 KSI.
2. PLATES AND OTHER MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36.
3. GROUT SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT (TYPE I, II, OR III) AND WATER. SUBMIT MIX DESIGN SUITABLE FOR ACHIEVING AN UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI.
4. PROVIDE FREE STRESSING LENGTHS AS INDICATED ON THE DRAWING SOE-401 USING SMOOTH PVC SHEATH.
5. THE ANCHOR BOND ZONE SHALL HAVE SHALL HAVE A MINIMUM NOMINAL DIAMETER OF AT LEAST 6 INCHES.
6. ANCHOR NUTS & COUPLERS SHALL BE CAPABLE OF DEVELOPING 100% OF THE ULTIMATE STRENGTH OF STRESS STEEL.
7. CARE SHALL BE TAKEN NOT TO DAMAGE THE ANCHOR TENDONS. KEEP THE ANCHOR TENDONS FREE OF DIRT OR OTHER DELETERIOUS SUBSTANCES.
8. WELDING SHALL NOT BE PERFORMED ON OR IN THE VICINITY OF ANCHOR TENDONS. ANCHOR TENDONS SHALL NOT BE USED AS A WELDING GROUND AND SHALL NOT BE EXCESSIVELY HEATED. CUTTING OF ANCHOR TENDONS SHALL BE PERFORMED WITH A METAL CUT-OFF SAW; TORCHES AND PLASMA CUTTERS SHALL NOT BE USED.
9. ALL ANCHORS SHALL BE PROOF TESTED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE POST-TENSIONING INSTITUTE (PTI) DOCUMENT "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS", PTI-DC35.1-04.

PROOF TEST: AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P, 1.33P, HOLD 1.33P FOR CREEP TEST, (WHERE P = DESIGN LOAD). RECORD READINGS AT 0.1,2,3,4,5,6 AND 10 MINUTES. RELEASE TO TRANSFER LOAD AND LOCK OFF ANCHOR NUT.
10. JACKING SHALL BE PERFORMED UTILIZING A CALIBRATED CENTER-HOLE JACK.
11. ANCHOR MOVEMENTS SHALL BE RECORDED WITH A DIAL INDICATOR CAPABLE OF READING TO INCREMENTS OF 0.001-INCH.
12. ANCHORS SHALL HAVE AN ALLOWABLE CAPACITY SUITABLE FOR ACHIEVING LOADS PRESCRIBED ON THE DRAWINGS. ANCHORS SHALL BE LOCKED OFF AT 80 PERCENT OF THE DESIGN VALUE UPON COMPLETION OF TESTING U.O.N.
13. CONTRACTOR SHALL SUBMIT ANCHOR SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCING ANCHOR INSTALLATION. SHOP DRAWINGS SHALL CONTAIN ANCHOR DETAILS, INSTALLATION & TESTING PROCEDURES.

EXCAVATION

INSTALLATION AND EXCAVATION SEQUENCE NOTES

1. CONTRACTOR SHALL FIELD LOCATE EXISTING STRUCTURES AND UTILITIES TO ENSURE NECESSARY CLEARANCES PRIOR TO START OF WORK.
2. PRE-TRENCH AS NECESSARY TO CLEAR OBSTRUCTIONS AND REMNANT FOUNDATION ELEMENTS WHICH MAY EFFECT THE INSTALLATION OF SOLDIER PILES.
3. GRADE SURFACE AS REQUIRED TO PROVIDE LEVEL WORKING PLATFORM.
4. SET DRILL RIG AT DESIRED LOCATION AND PLUMB THE PILE PRIOR TO DRILLING.
5. DRILL SOLDIER PILES TO REQUIRED MINIMUM DEPTHS. VIBRATION AND SURVEY MONITORING SHALL BE PERFORMED CONTINUOUSLY DURING DRILLING.
6. THE TOP OF ALL PILES SHALL EXTEND A MINIMUM OF 6 INCHES ABOVE THE GROUND SURFACE.
7. INSTALL BRACING AS REQUIRED INCLUDING DRILLING OF TIEBACKS.
8. CONTINUE EXCAVATION AS REQUIRED TO ACHIEVE SUBGRADE ELEVATION. PROVIDE TEMPORARY DEWATERING LOCALLY AS REQUIRED FOR INSTALLATION OF PERMANENT FOUNDATIONS.
9. INSTALL PERMANENT FOUNDATIONS AS REQUIRED.
10. BRACING SHALL REMAIN IN-PLACE UNTIL ADEQUATE SUPPORT IS PROVIDED BY PERMANENT STRUCTURAL ELEMENTS (I.E. FOUNDATION WALLS AND INTERMEDIATE FLOOR SLABS).
11. MONITORING OF WALL MOVEMENTS AND ADJACENT STRUCTURES SHALL BE PERFORMED CONTINUOUSLY DURING ALL OPERATIONS.

NEW YORK CITY SPECIAL INSPECTION NOTES

1. THE DESIGNATED PROFESSIONAL ENGINEERS FOR SPECIAL INSPECTIONS RETAINED BY THE OWNER SHALL PERFORM ON-SITE INSPECTION IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE REGULATIONS UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.
 - a. STRUCTURAL STEEL - WELDING PER SECTION 1704.3.1
 - b. CONCRETE - CAST-IN-PLACE PER SECTION 1704.4
 - c. SUBGRADE INSPECTION PER SECTION 1704.7.1
 - d. SUBSURFACE CONDITIONS - FILL PLACEMENT & IN-PLACE DENSITY PER SECTION 1704.7.2 AND 1704.7.3
 - e. EXCAVATIONS - SHEETING, SHORING AND BRACING PER SECTION 1704.20.2
 - f. CONCRETE DESIGN MIX PER SECTION 1905.3 AND 1913.5
 - g. CONCRETE SAMPLING AND TESTING PER SECTION 1905.6 AND 1913.10
 - h. FINAL PROGRESS INSPECTION PER SECTION 28-116.2.4.2, 110.5, DIRECTIVE 14 OF 1975 AND 1 RCNY 101-10
2. THE SPECIAL INSPECTION ENGINEERS ARE RESPONSIBLE FOR FILING AND OBTAINING APPROVAL OF ALL STATEMENTS, TEST AND INSPECTION REPORTS.
3. ALL TESTING AGENCY REPORTS SHALL BE SIGNED AND SEALED BY A N.Y.S. LICENSED P.E.
4. NYC BUILDING CODE REQUIRES NOTICE OF COMMENCEMENT OF WORK BEFORE ANY WORK BEGINS ON AN ITEM OF CONSTRUCTION REQUIRING SPECIAL INSPECTION. ALL PERSONS RESPONSIBLE FOR SUCH SPECIAL INSPECTION SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO SUCH COMMENCEMENT.

NEW YORK CITY BUILDING DEPARTMENT NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE 2014 NEW YORK CITY BUILDING CODE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF BUILDINGS AND ADJACENT PROPERTY OWNER'S 24-48 HOURS PRIOR TO COMMENCING EXCAVATION AS PER SECTION 3304.3.1 AND 3304.3.2 OF THE NEW YORK CITY BUILDING CODE.
3. ALL WORK CONTAINED HEREIN SHALL BE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE. SPECIAL INSPECTORS SHALL MEET THE QUALIFICATIONS OUTLINED IN THE RULES OF THE CITY OF NEW YORK, SECTION 101-06, DATED 6-30-08. REQUIRED SPECIAL INSPECTIONS INCLUDE:
 - A. SOILS AS PER SECTION 1704.7
 - a. FILL PLACEMENT
 - b. IN-PLACE SOIL DENSITY
 - B. CONCRETE CONSTRUCTION AS PER SECTION 1704.4
 - a. CONCRETE MIX DESIGN
 - b. CONCRETE CYLINDERS AND TESTING
 - c. CAST-IN-PLACE CONCRETE INCLUDING PLACEMENT OF FORM WORK AND REINFORCING STEEL
 - C. EXCAVATION - SHEETING, SHORING AND BRACING AS PER 1704.19 AND 3304.4.1
 - E. EXCAVATION AS PER SECTION 1704.3
 - a. WELDING
4. IN CONFORMANCE WITH THE NEW YORK CITY BUILDING CODE, THE OWNER'S ENGINEER SHALL BE RETAINED TO CONDUCT THE REQUIRED SPECIAL INSPECTIONS.
5. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SCOPE AND DETAILED REQUIREMENTS FOR INSPECTIONS AND TESTING.
6. REFER TO THE PROJECT SPECIFICATIONS AND DRAWINGS FOR INSPECTION AND TESTING REQUIREMENTS PERTAINING TO WORK OF OTHER TRADES.

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STATE LIC. No. XXXXX

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Collectively known as Langan

Project

111 LEROY STREET

**BLOCK No. 602, LOT No.83-85
MANHATTAN**

NEW YORK NEW YORK

Drawing Title

**SUPPORT OF
EXCAVATION PLAN**

Project No.

170370001

Drawing No.

SOE-001

Date

01/04/2016

Scale

1/8"=1'

Drawn By

RK

Checked By

JMD

Submission Date

01/04/2016

Sheet 1 of 9

DRAFT - WORK IN PROGRESS

LOT 85 A=13,275.10 SQ.FT.=0.30 ACRES
 TOTAL LOTS A=31,246.95 SQ.FT.=0.72 ACRES

627 GREENWICH STREET

78 MORTON STREET

423 HUDSON STREET

625 GREENWICH ST

FF.EL 15.90

EL 17.33

EL 16.66

TOP OF BERM
EL.16±

SOLDIER PILE (TYP)
HSS 14" Ø X 0.5"

BOT. OF BERM
EL. 3±

PIT EXCAVATION
TO EL. -2±

EL 15.19

EL 15.75

EL 15.72

EL 15.78

EL 17.94

EL 17.98

EL 18.31

EL 18.85

EL 18.72

EL 18.85

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Project
111 LEROY STREET
 BLOCK No. 602, LOT No. 83-85
 MANHATTAN
 NEW YORK NEW YORK

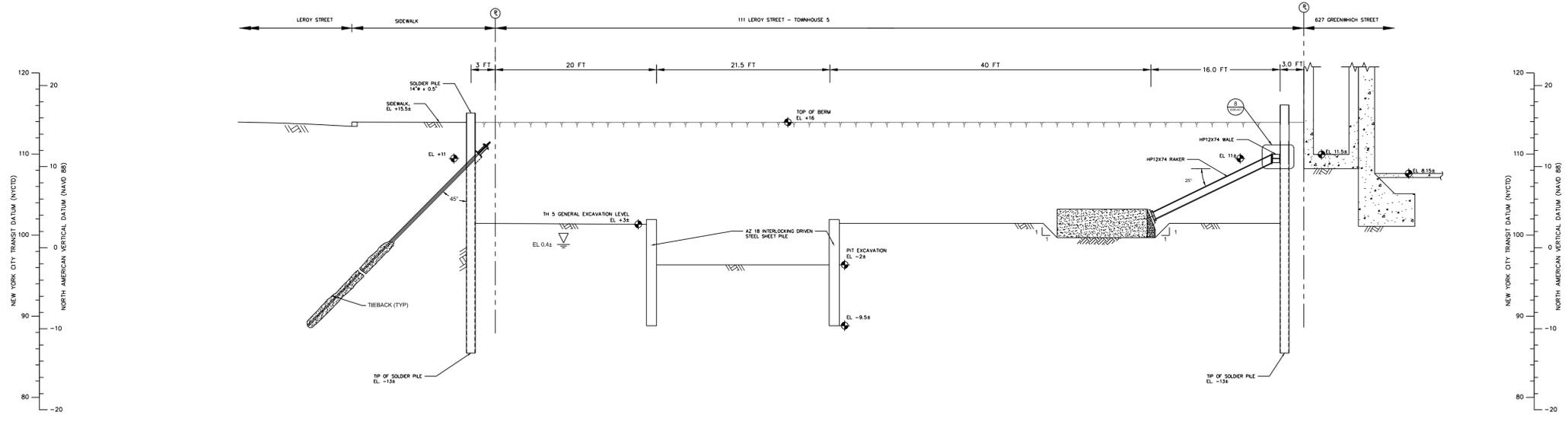
Drawing Title
**SUPPORT OF
 EXCAVATION PLAN**

Project No. 170370001	Drawing No. SOE-101
Date 01/04/2016	
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 2 of 9

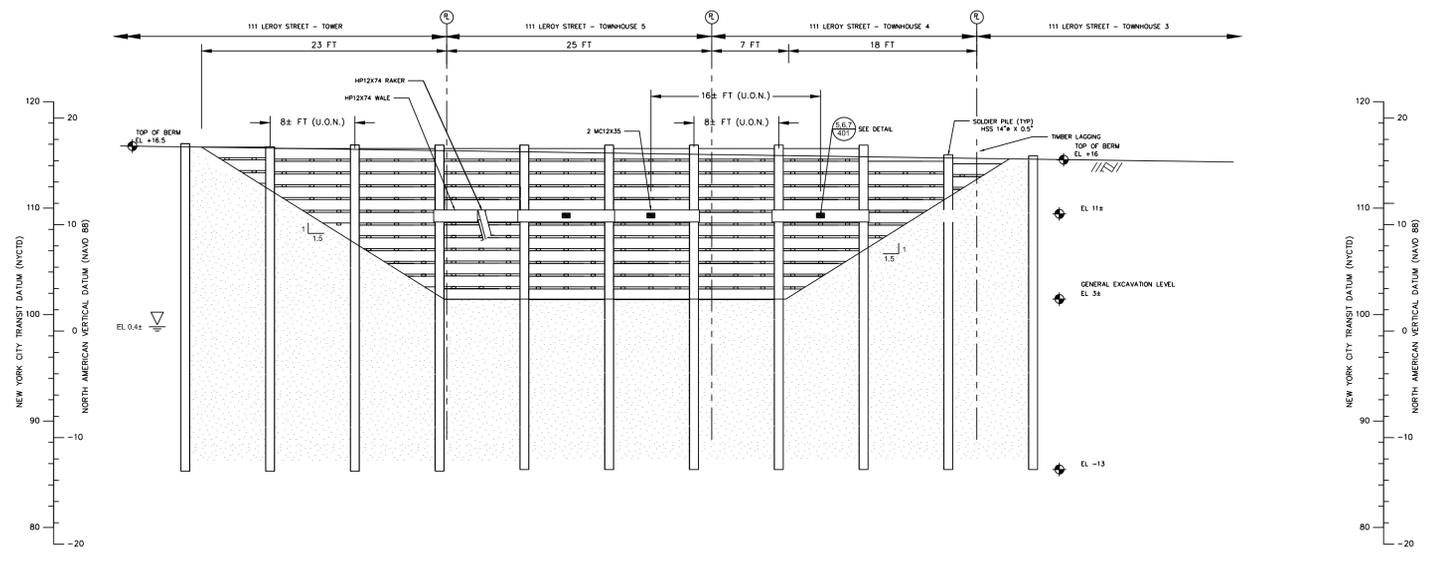
DRAFT - WORK IN PROGRESS



PROJECT NO. # SUBMISSION DATE: X LANGAN



① ELEVATION - WEST
SCALE : 1/8" = 1'



② ELEVATION - SOUTH
SCALE : 1/8" = 1'

DRAFT - WORK IN PROGRESS

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Langan, S.L. (Spain)
Langan International LLC
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Project

111 LEROY STREET

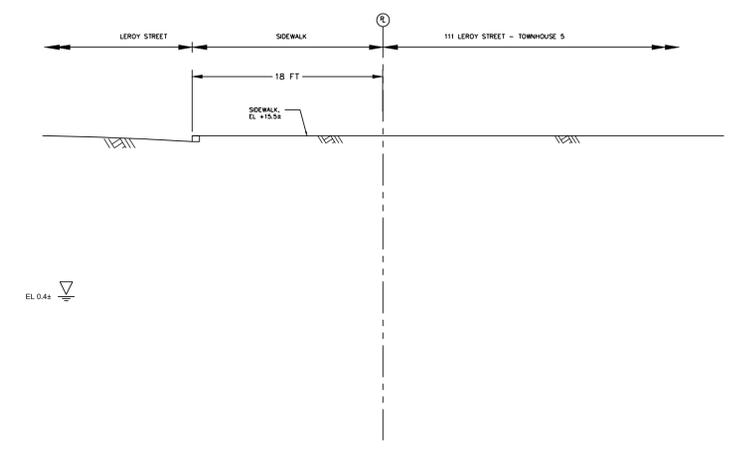
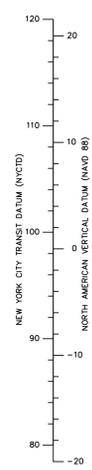
BLOCK No. 602, LOT No.83-85
MANHATTAN

NEW YORK NEW YORK

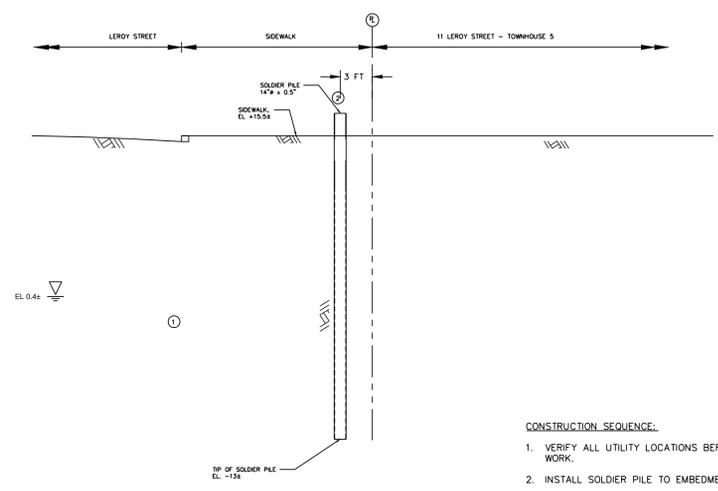
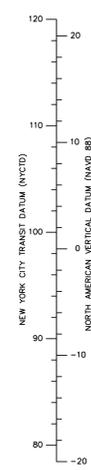
Drawing Title

ELEVATIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-201
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 3 of 9

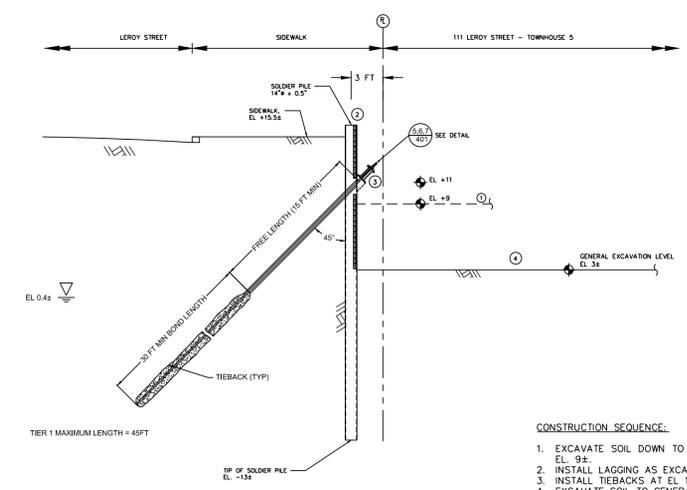
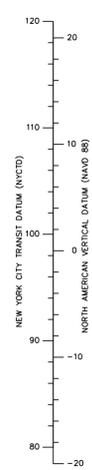


SECTION A - EXISTING CONDITIONS



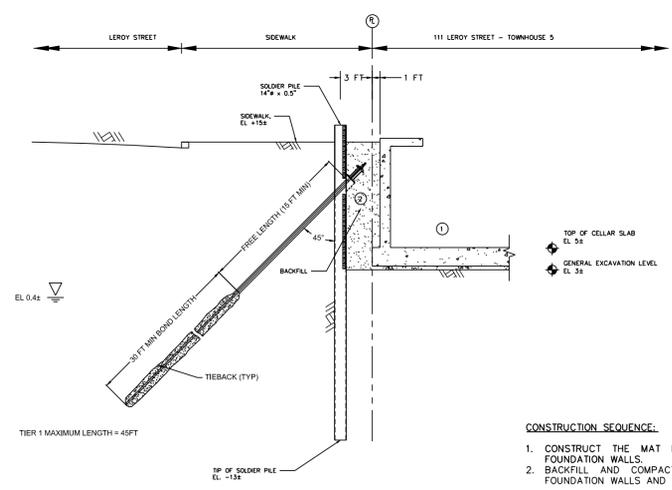
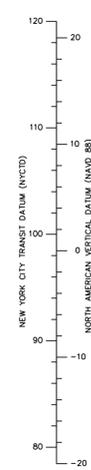
- CONSTRUCTION SEQUENCE:
1. VERIFY ALL UTILITY LOCATIONS BEFORE STARTING WORK.
 2. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH.

SECTION A - STAGE 1



- CONSTRUCTION SEQUENCE:
1. EXCAVATE SOIL DOWN TO TEMPORARY LEVEL AT EL. 5.2.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. INSTALL TIEBACKS AT EL. 11.2.
 4. EXCAVATE SOIL TO GENERAL EXCAVATION LEVEL.

SECTION A - STAGE 2



- CONSTRUCTION SEQUENCE:
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.
 2. BACKFILL AND COMPACT BETWEEN THE NEW FOUNDATION WALLS AND THE SOLDIER PILES.

SECTION A - STAGE 3

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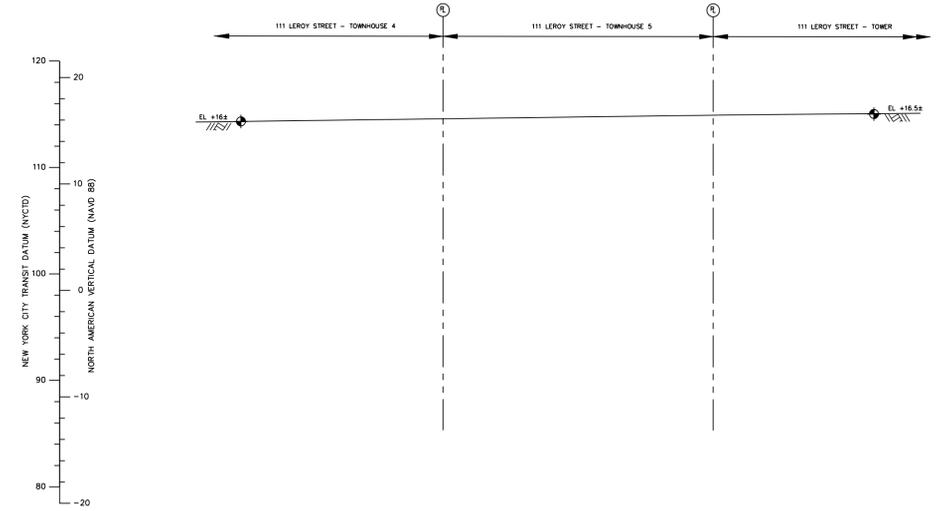
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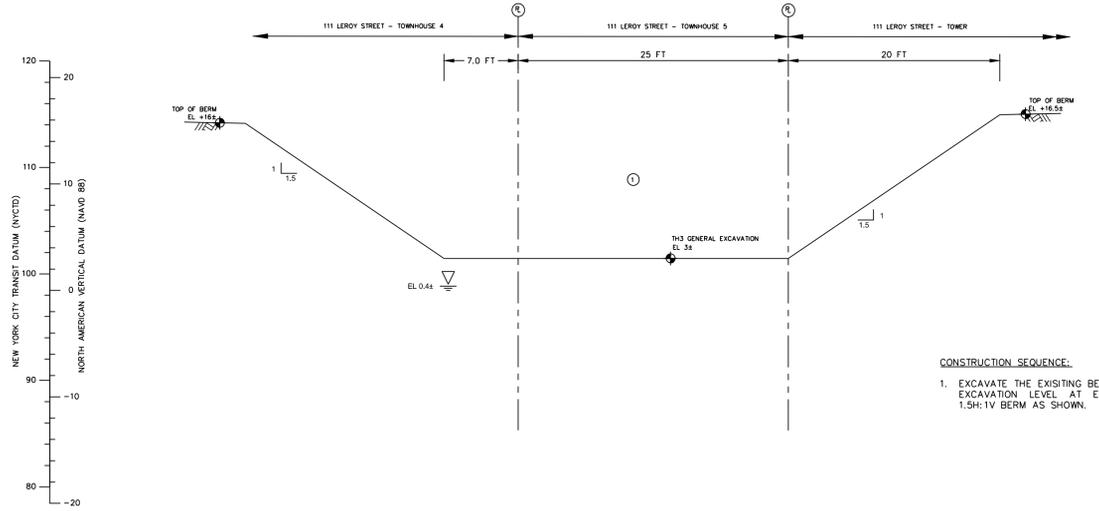
Project
111 LEROY STREET
BLOCK No. 602, LOT No. 83-85
MANHATTAN
NEW YORK NEW YORK
Drawing Title
SECTIONS

Project No. 170370001	Drawing No. SOE-301
Date 01/04/2016	
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 5 of 9

DRAFT - WORK IN PROGRESS

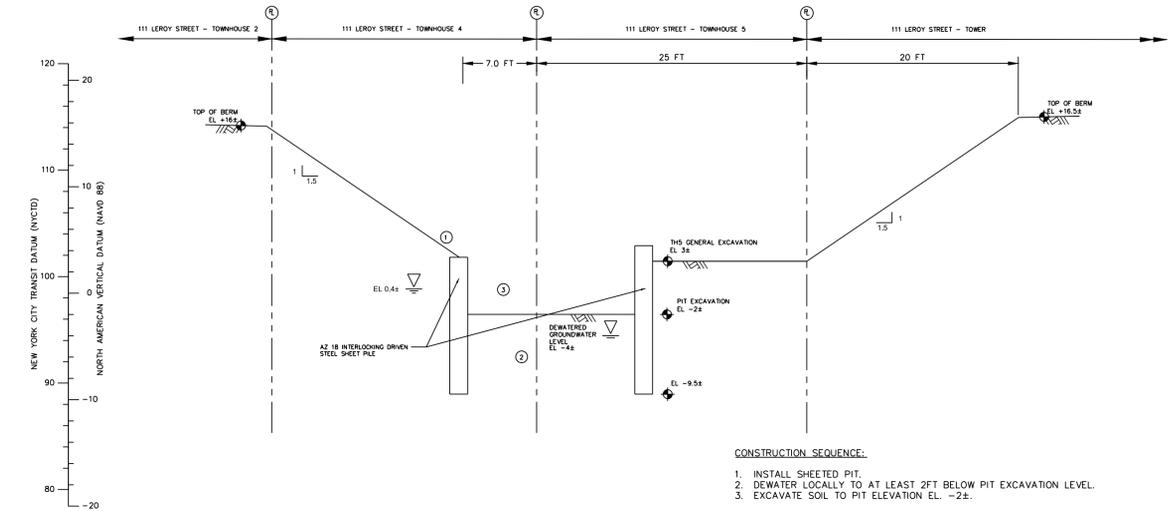


SECTION B - EXISTING CONDITIONS



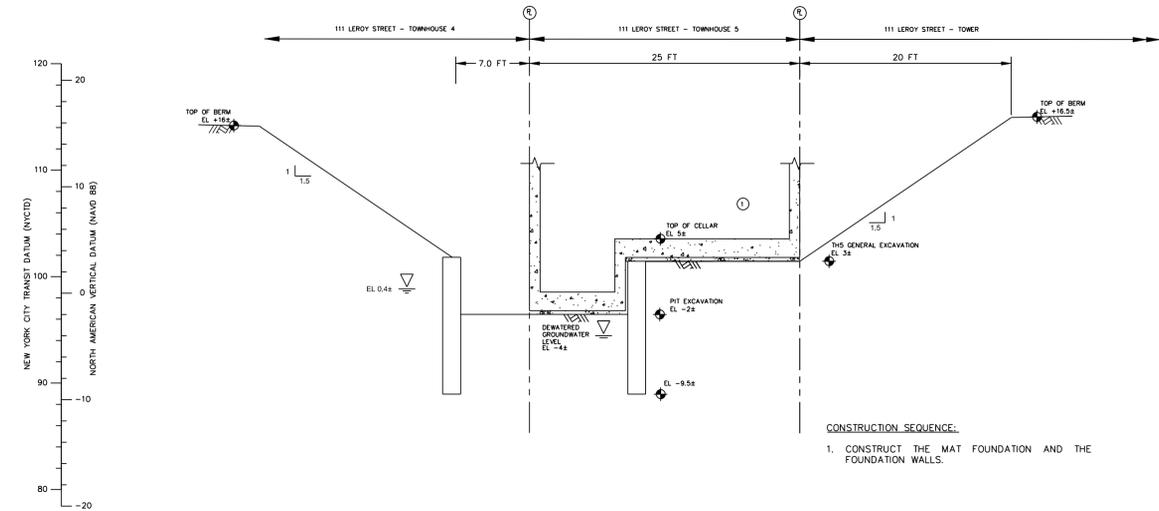
CONSTRUCTION SEQUENCE:
1. EXCAVATE THE EXISTING BERM TO THIS GENERAL EXCAVATION LEVEL AT EL 3.4, LEAVING A 1.5H:1V BERM AS SHOWN.

SECTION B - STAGE 1



CONSTRUCTION SEQUENCE:
1. INSTALL SHEETED PIT.
2. DEWATER LOCALLY TO AT LEAST 2FT BELOW PIT EXCAVATION LEVEL.
3. EXCAVATE SOIL TO PIT ELEVATION EL. -2.4.

SECTION B - STAGE 2



CONSTRUCTION SEQUENCE:
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.

SECTION B - STAGE 3

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111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

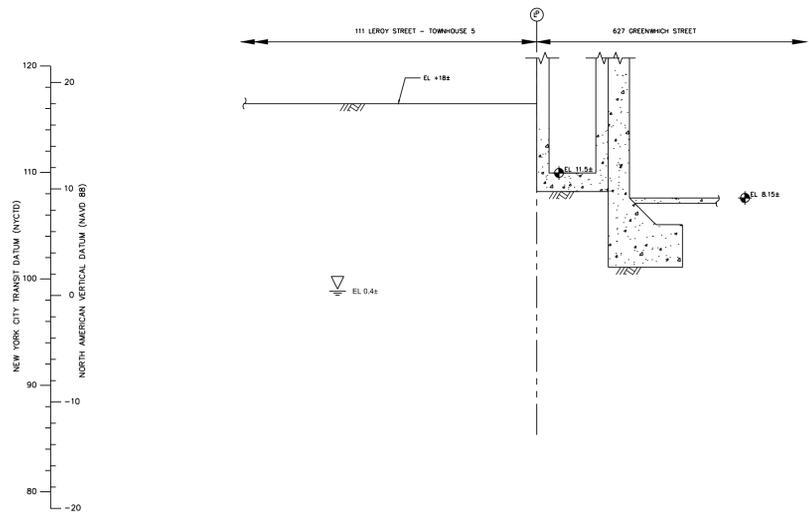
NEW YORK NEW YORK

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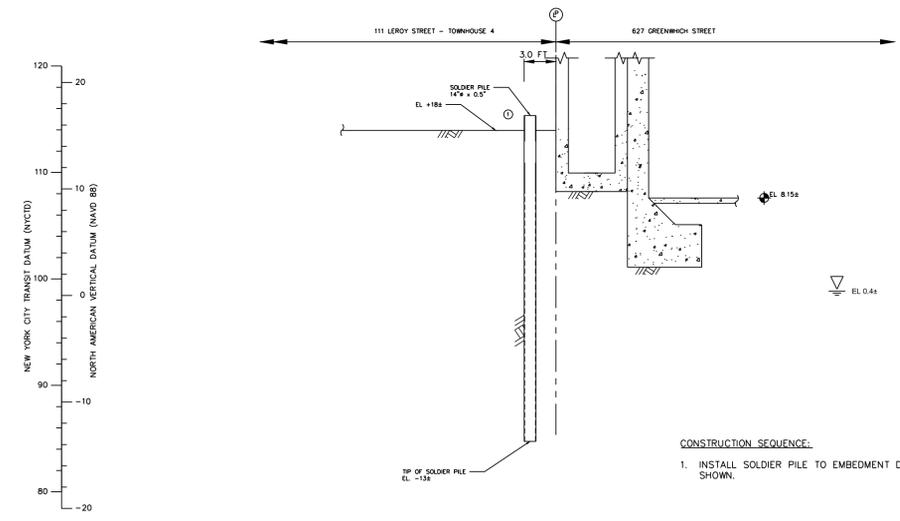
SECTIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-302
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 6 of 9

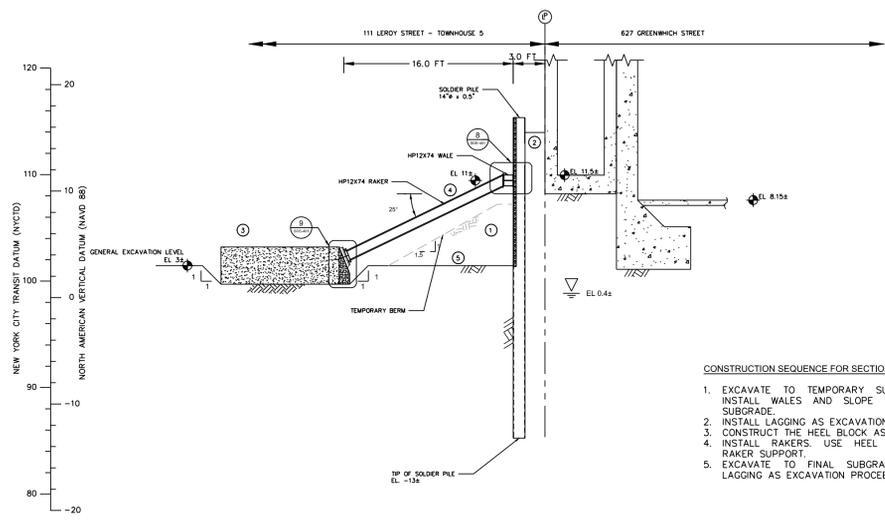
DRAFT - WORK IN PROGRESS



SECTION C - EXISTING CONDITIONS

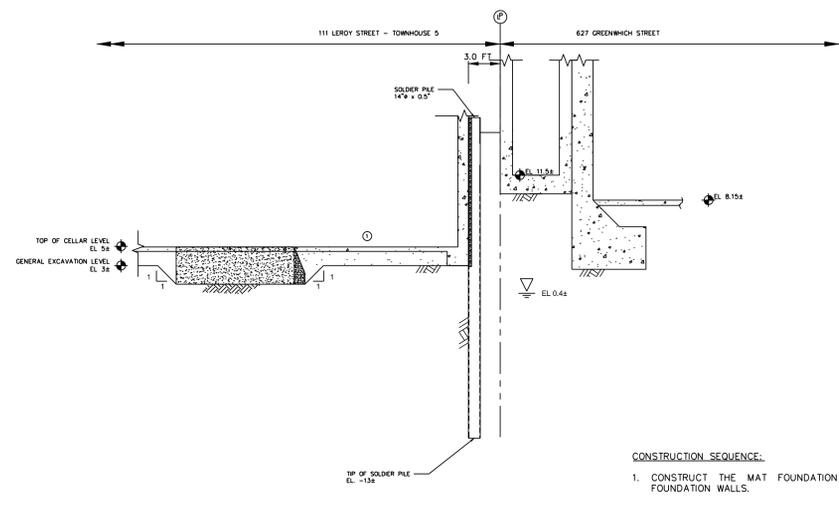


SECTION C - STAGE 1



SECTION C - STAGE 2

- CONSTRUCTION SEQUENCE FOR SECTION H:**
1. EXCAVATE TO TEMPORARY SUBGRADE TO INSTALL WALES AND SLOPE TO GENERAL SUBGRADE.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. CONSTRUCT THE HEEL BLOCK AS SHOWN.
 4. INSTALL RAKERS. USE HEEL BLOCK FOR RAKER SUPPORT.
 5. EXCAVATE TO FINAL SUBGRADE. INSTALL LAGGING AS EXCAVATION PROCEEDS.



SECTION C - STAGE 3

- CONSTRUCTION SEQUENCE:**
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.

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Project

111 LEROY STREET

BLOCK No. 602, LOT No. 83-85
MANHATTAN

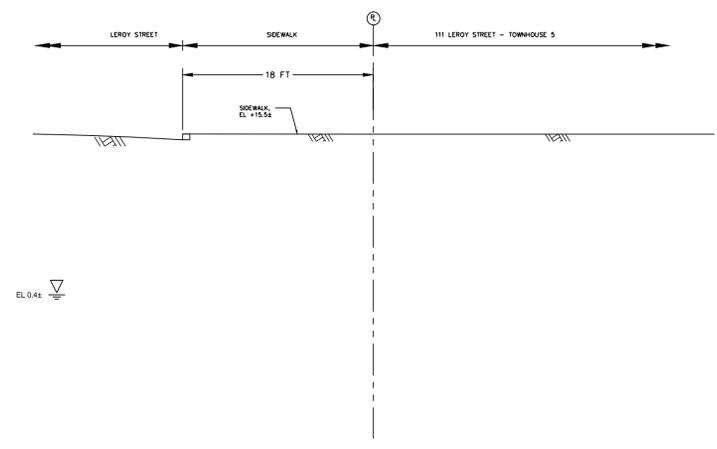
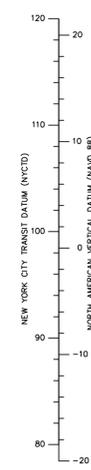
NEW YORK NEW YORK

Drawing Title

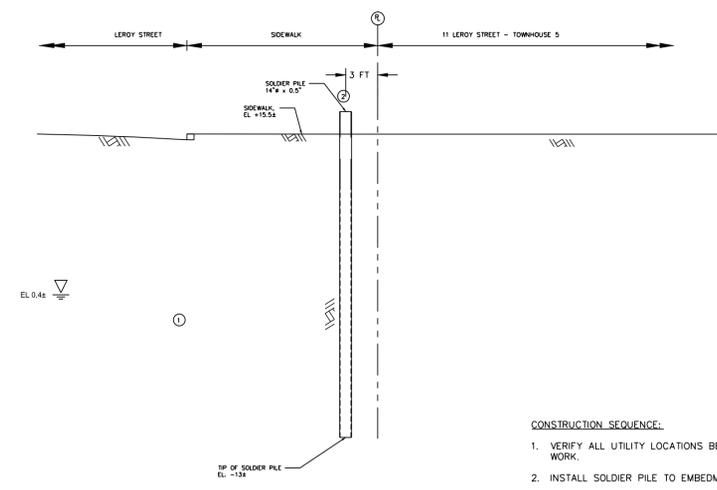
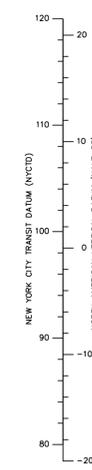
SECTIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-303
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 7 of 9

DRAFT - WORK IN PROGRESS

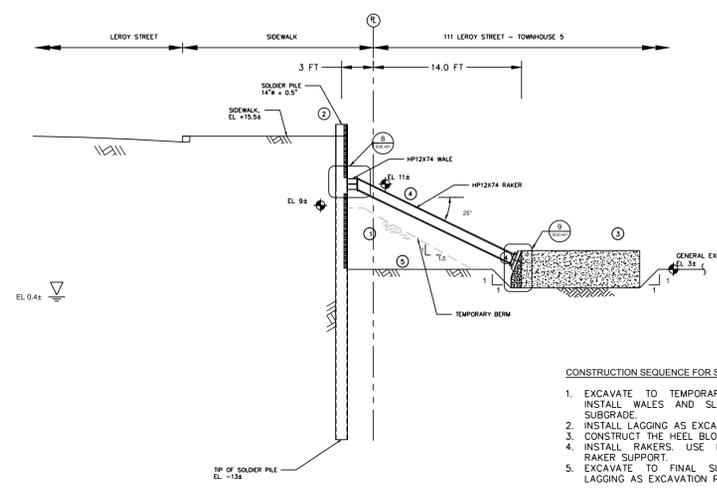
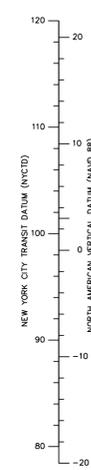


SECTION D - EXISTING CONDITIONS



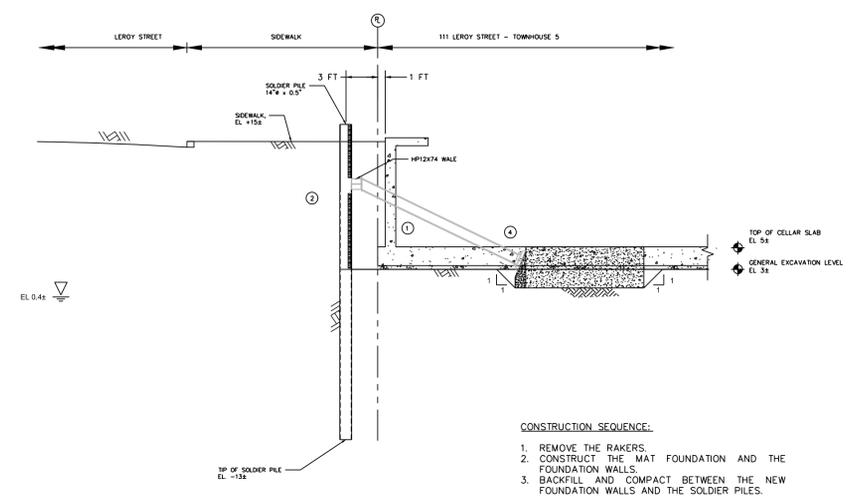
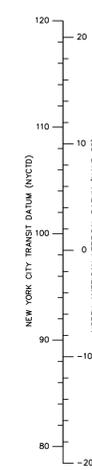
- CONSTRUCTION SEQUENCE:**
1. VERIFY ALL UTILITY LOCATIONS BEFORE STARTING WORK.
 2. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH.

SECTION D - STAGE 1



- CONSTRUCTION SEQUENCE FOR SECTION H:**
1. EXCAVATE TO TEMPORARY SUBGRADE TO INSTALL WALES AND SLOPE TO GENERAL SUBGRADE.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. CONSTRUCT THE HEEL BLOCK AS SHOWN.
 4. INSTALL RAKERS. USE HEEL BLOCK FOR RAKER SUPPORT.
 5. EXCAVATE TO FINAL SUBGRADE. INSTALL LAGGING AS EXCAVATION PROCEEDS.

SECTION D - STAGE 2



- CONSTRUCTION SEQUENCE:**
1. REMOVE THE RAKERS.
 2. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.
 3. BACKFILL AND COMPACT BETWEEN THE NEW FOUNDATION WALLS AND THE SOLDIER PILES.

SECTION D - STAGE 3

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Project

111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

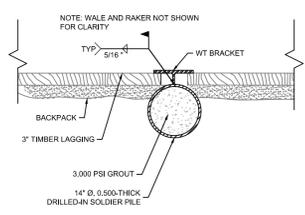
NEW YORK NEW YORK

Drawing Title

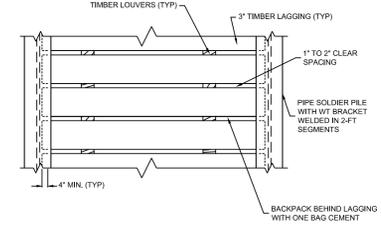
SECTIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-304
Scale 1/8"=1'	
Drawn By RK	
Checked By JMD	Sheet 8 of 9
Submission Date 01/04/2016	

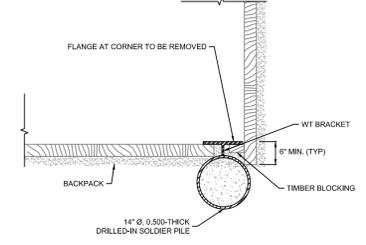
DRAFT - WORK IN PROGRESS



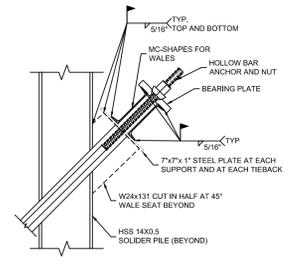
1 SOLDIER PILE TO LAGGING CONNECTION
SCALE: N.T.S.



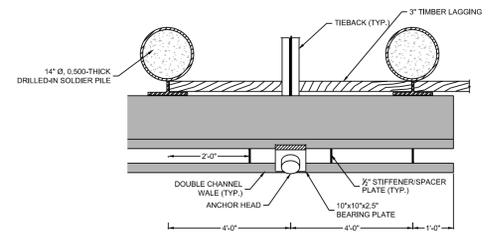
2 TYPICAL LAGGING INSTALLATION
SCALE: N.T.S.



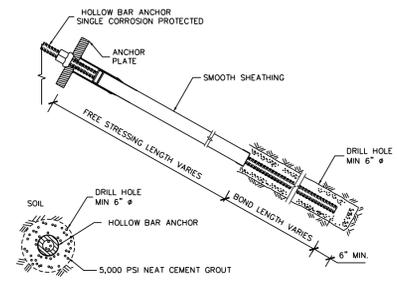
3 CORNER SOLDIER PILE DETAIL
SCALE: N.T.S.



4 TIEBACK SUPPORT DETAIL (SECTION)
SCALE: N.T.S.

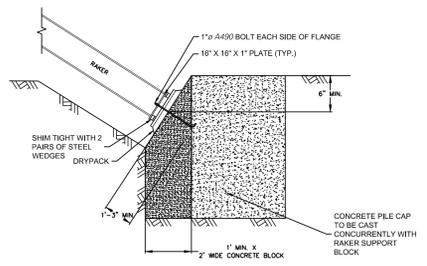


5 TIEBACK SUPPORT DETAIL (PLAN)
SCALE: N.T.S.

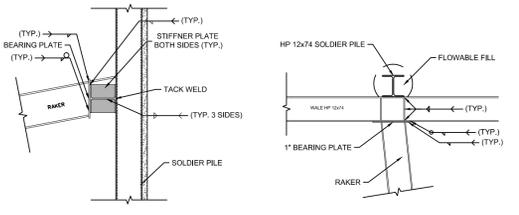


TIEBACK TYPE	WALL	DESIGN LOAD	LOCK-OFF	WALE	ANGLE
ANP H1200-64	WEST	85 KIP	85 KIP	(2) MC12x35	45°
ANP H1200-64	SOUTH	85 KIP	85 KIP	(2) MC12x35	45°

6 TIEBACK DETAIL
SCALE: N.T.S.



7 HEEL BLOCK CONNECTION DETAIL
SCALE: N.T.S.



8 WALLER RAKER SYSTEM DETAIL
SCALE: N.T.S.

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111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

NEW YORK NEW YORK

Drawing Title

DETAILS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-401
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 9 of 9

DRAFT - WORK IN PROGRESS

GENERAL NOTES:

1. BASE PLAN EXTRACTED FROM A SURVEY BY JOSEPH NICHOLETI ASSOCIATES DATED 07/29/2014.
2. FOUNDATION BACKGROUND OBTAINED FROM DRAWING TITLED "FO0101.00 FOUNDATION PLAN" PREPARED BY SIMPSON GUMPERTZ & HEGER, DATED NOVEMBER 20,2015.
3. ELEVATIONS ARE WITH RESPECT TO THE TRANSIT AUTHORITY (TA) DATUM AND NORTH AMERICAN VERTICAL DATUM (NAVD) 1988, WHICH IS 1.106 FT ABOVE MEAN SEA LEVEL AT SANDY HOOK, NJ ESTABLISHED BY U.S. COAST AND GEODETIC SURVEY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING HIS WORK SUCH THAT NO DAMAGE OR ADVERSE IMPACT TO THE NEIGHBORING BUILDINGS AND STRUCTURES RESULT, AND FOR PERFORMING NEIGHBORING/BORDERING BUILDING AND STRUCTURE MONITORING DURING SOIL EXCAVATION AND EXCAVATION SUPPORT CONSTRUCTION TO KEEP HIMSELF CONTINUOUSLY INFORMED OF THEIR CONDITIONS.
5. A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND RETAINED DIRECTLY BY THE OWNER SHALL PERFORM SPECIAL INSPECTION OF THE EXCAVATION SUPPORT WORK IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704.19 OF THE NYC BUILDING CODE.
6. CONTRACTOR SHALL NOTIFY NYCD0B AND NEIGHBORING BUILDING OWNERS 24 TO 48 HOURS PER THE REQUIREMENTS OF THE LATEST NYC BUILDING CODE PRIOR TO COMMENCEMENT OF EXCAVATION WORK.
7. CONTRACTOR SITE SAFETY AND SITE LOGISTICS ARE BEYOND THE SCOPE OF THESE DRAWINGS AND ARE NOT ADDRESSED HEREIN.
8. ON-SITE SUBSURFACE CONDITIONS INDICATED ON THE DRAWINGS ARE INFERRED BASED ON OBSERVATIONS IN THE DRILLED BORINGS. THE ACTUAL SUBSURFACE CONDITIONS MAY VARY.
9. THE MOST RECENT PROVISIONS OF THE NEW YORK CITY BUILDING CODE SHALL GOVERN THIS WORK.
10. THE WORK SHOWN IN THESE DRAWINGS SHALL BE EXECUTED IN CONJUNCTION WITH THOSE OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, SITE/CIVIL DRAWINGS AND DRAWINGS OF ALL OTHER DISCIPLINES. DISCREPANCIES BETWEEN THESE DRAWINGS AND THOSE OF OTHER DISCIPLINES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
11. SHOULD FIELD CONDITIONS CONFLICT WITH THOSE INDICATED ON THESE DRAWINGS, THE DESIGNER SHALL BE IMMEDIATELY NOTIFIED TO DETERMINE IMPACTS TO THE DESIGN AND TO PROVIDE ANY REQUIRED DESIGN CHANGES.

MATERIALS

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992, GRADE 80, U.O.N.
2. FIELD WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1-06.
3. WELDING ELECTRODES SHALL BE E70XX, UNLESS NOTED OTHERWISE. FILLET WELDS SHALL NOT BE LESS THAN 3/16-INCH.

CONCRETE NOTES

1. CAST-IN-PLACE CONCRETE SHALL BE CONTROLLED CONCRETE AND SHALL HAVE A MINIMUM UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI U.O.N.
2. CONCRETE REINFORCEMENT BARS SHALL CONSIST OF DEFORMED BILLET STEEL MEETING ASTM A615, GRADE 60.
3. MECHANICAL SPLICES SHALL DEVELOP THE FULL TENSILE CAPACITY OF THE PARENT REINFORCING BAR.
4. MINIMUM CONCRETE COVER SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 318.
5. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST RECENT PROVISIONS OF ACI 117.
6. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED A MINIMUM OF 3/4 INCHES.
7. REFER TO DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR CONCRETE REQUIREMENTS RELATED TO ALL OTHER WORK.

SHORING AND BRACING

SOLDIER PILE AND LAGGING NOTES

1. SOLDIER PILES SHALL NOT BE DRIVEN.
2. TEMPORARY CASING IS TO BE DRILLED TO THE TIP ELEVATION. THE SOLDIER PILE IS TO BE INSERTED AND GROUTED WITH A TREMIE PIPE. TEMPORARY CASING IS TO BE EXTRACTED DURING GROUTING.
3. SOLDIER PILES SHALL BE INSTALLED TO WITHIN 3-INCHES OF THEORETICAL LOCATION. SOLDIER PILES SHALL NOT DEVIATE MORE THAN 1 PERCENT FROM PLUMB. SOLDIER PILES DRILLED OUTSIDE OF THE ABOVE TOLERANCES SHALL BE EXTRACTED AND REDRILLED.
4. TIMBER SHALL BE CONSTRUCTION GRADE, ROUGH CUT FULL SIZE, SOUTHERN PINE WITH A MINIMUM ALLOWABLE BENDING STRESS OF 1950 PSI. TIMBER LAGGING SHALL BE INSTALLED FROM GROUND SURFACE TO EXTENT OF EXCAVATION (TOP-DOWN).

TIE-BACK INSTALLATION AND TESTING NOTES

1. ANCHOR SHALL CONSIST SINGLE-CORROSION PROTECTION HOLLOW BARS MANUFACTURED BY SAS STRESSSTEEL, INC., OR APPROVED EQUIVALENT. THE ULTIMATE STRENGTH SHALL BE 97 KSI.
2. PLATES AND OTHER MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A-36.
3. GROUT SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT (TYPE I, II, OR III) AND WATER. SUBMIT MIX DESIGN SUITABLE FOR ACHIEVING AN UNCONFINED COMPRESSIVE STRENGTH AT 28 DAYS (FC) OF 5,000 PSI.
4. PROVIDE FREE STRESSING LENGTHS AS INDICATED ON THE DRAWING SOE-401 USING SMOOTH PVC SHEATH.
5. THE ANCHOR BOND ZONE SHALL HAVE SHALL HAVE A MINIMUM NOMINAL DIAMETER OF AT LEAST 6 INCHES.
6. ANCHOR NUTS & COUPLERS SHALL BE CAPABLE OF DEVELOPING 100% OF THE ULTIMATE STRENGTH OF STRESS STEEL.
7. CARE SHALL BE TAKEN NOT TO DAMAGE THE ANCHOR TENDONS. KEEP THE ANCHOR TENDONS FREE OF DIRT OR OTHER DELETERIOUS SUBSTANCES.
8. WELDING SHALL NOT BE PERFORMED ON OR IN THE VICINITY OF ANCHOR TENDONS. ANCHOR TENDONS SHALL NOT BE USED AS A WELDING GROUND AND SHALL NOT BE EXCESSIVELY HEATED. CUTTING OF ANCHOR TENDONS SHALL BE PERFORMED WITH A METAL CUT-OFF SAW; TORCHES AND PLASMA CUTTERS SHALL NOT BE USED.
9. ALL ANCHORS SHALL BE PROOF TESTED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE POST-TENSIONING INSTITUTE (PTI) DOCUMENT "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS", PTI-DC35.1-04.

PROOF TEST: AL, 0.25P, 0.50P, 0.75P, 1.00P, 1.20P, 1.33P, HOLD 1.33P FOR CREEP TEST, (WHERE P = DESIGN LOAD). RECORD READINGS AT 0.1,2,3,4,5,6 AND 10 MINUTES. RELEASE TO TRANSFER LOAD AND LOCK OFF ANCHOR NUT.
10. JACKING SHALL BE PERFORMED UTILIZING A CALIBRATED CENTER-HOLE JACK.
11. ANCHOR MOVEMENTS SHALL BE RECORDED WITH A DIAL INDICATOR CAPABLE OF READING TO INCREMENTS OF 0.001-INCH.
12. ANCHORS SHALL HAVE AN ALLOWABLE CAPACITY SUITABLE FOR ACHIEVING LOADS PRESCRIBED ON THE DRAWINGS. ANCHORS SHALL BE LOCKED OFF AT 80 PERCENT OF THE DESIGN VALUE UPON COMPLETION OF TESTING U.O.N.
13. CONTRACTOR SHALL SUBMIT ANCHOR SHOP DRAWINGS FOR APPROVAL PRIOR TO COMMENCING ANCHOR INSTALLATION. SHOP DRAWINGS SHALL CONTAIN ANCHOR DETAILS, INSTALLATION & TESTING PROCEDURES.

EXCAVATION

INSTALLATION AND EXCAVATION SEQUENCE NOTES

1. CONTRACTOR SHALL FIELD LOCATE EXISTING STRUCTURES AND UTILITIES TO ENSURE NECESSARY CLEARANCES PRIOR TO START OF WORK.
2. PRE-TRENCH AS NECESSARY TO CLEAR OBSTRUCTIONS AND REMNANT FOUNDATION ELEMENTS WHICH MAY EFFECT THE INSTALLATION OF SOLDIER PILES.
3. GRADE SURFACE AS REQUIRED TO PROVIDE LEVEL WORKING PLATFORM.
4. SET DRILL RIG AT DESIRED LOCATION AND PLUMB THE PILE PRIOR TO DRILLING.
5. DRILL SOLDIER PILES TO REQUIRED MINIMUM DEPTHS. VIBRATION AND SURVEY MONITORING SHALL BE PERFORMED CONTINUOUSLY DURING DRILLING.
6. THE TOP OF ALL PILES SHALL EXTEND A MINIMUM OF 6 INCHES ABOVE THE GROUND SURFACE.
7. INSTALL BRACING AS REQUIRED INCLUDING DRILLING OF TIEBACKS.
8. CONTINUE EXCAVATION AS REQUIRED TO ACHIEVE SUBGRADE ELEVATION. PROVIDE TEMPORARY DEWATERING LOCALLY AS REQUIRED FOR INSTALLATION OF PERMANENT FOUNDATIONS.
9. INSTALL PERMANENT FOUNDATIONS AS REQUIRED.
10. BRACING SHALL REMAIN IN-PLACE UNTIL ADEQUATE SUPPORT IS PROVIDED BY PERMANENT STRUCTURAL ELEMENTS (I.E. FOUNDATION WALLS AND INTERMEDIATE FLOOR SLABS).
11. MONITORING OF WALL MOVEMENTS AND ADJACENT STRUCTURES SHALL BE PERFORMED CONTINUOUSLY DURING ALL OPERATIONS.

NEW YORK CITY SPECIAL INSPECTION NOTES

1. THE DESIGNATED PROFESSIONAL ENGINEERS FOR SPECIAL INSPECTIONS RETAINED BY THE OWNER SHALL PERFORM ON-SITE INSPECTION IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE REGULATIONS UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER.
 - a. STRUCTURAL STEEL - WELDING PER SECTION 1704.3.1
 - b. CONCRETE - CAST-IN-PLACE PER SECTION 1704.4
 - c. SUBGRADE INSPECTION PER SECTION 1704.7.1
 - d. SUBSURFACE CONDITIONS - FILL PLACEMENT & IN-PLACE DENSITY PER SECTION 1704.7.2 AND 1704.7.3
 - e. EXCAVATIONS - SHEETING, SHORING AND BRACING PER SECTION 1704.20.2
 - f. CONCRETE DESIGN MIX PER SECTION 1905.3 AND 1913.5
 - g. CONCRETE SAMPLING AND TESTING PER SECTION 1905.6 AND 1913.10
 - h. FINAL PROGRESS INSPECTION PER SECTION 28-116.2.4.2, 110.5, DIRECTIVE 14 OF 1975 AND 1 RCNY 101-10
2. THE SPECIAL INSPECTION ENGINEERS ARE RESPONSIBLE FOR FILING AND OBTAINING APPROVAL OF ALL STATEMENTS, TEST AND INSPECTION REPORTS.
3. ALL TESTING AGENCY REPORTS SHALL BE SIGNED AND SEALED BY A N.Y.S. LICENSED P.E.
4. NYC BUILDING CODE REQUIRES NOTICE OF COMMENCEMENT OF WORK BEFORE ANY WORK BEGINS ON AN ITEM OF CONSTRUCTION REQUIRING SPECIAL INSPECTION. ALL PERSONS RESPONSIBLE FOR SUCH SPECIAL INSPECTION SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 72 HOURS PRIOR TO SUCH COMMENCEMENT.

NEW YORK CITY BUILDING DEPARTMENT NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OUTLINED IN THE 2014 NEW YORK CITY BUILDING CODE.
2. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF BUILDINGS AND ADJACENT PROPERTY OWNER'S 24-48 HOURS PRIOR TO COMMENCING EXCAVATION AS PER SECTION 3304.3.1 AND 3304.3.2 OF THE NEW YORK CITY BUILDING CODE.
3. ALL WORK CONTAINED HEREIN SHALL BE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE. SPECIAL INSPECTORS SHALL MEET THE QUALIFICATIONS OUTLINED IN THE RULES OF THE CITY OF NEW YORK, SECTION 101-06, DATED 6-30-08. REQUIRED SPECIAL INSPECTIONS INCLUDE:
 - A. SOILS AS PER SECTION 1704.7
 - a. FILL PLACEMENT
 - b. IN-PLACE SOIL DENSITY
 - B. CONCRETE CONSTRUCTION AS PER SECTION 1704.4
 - a. CONCRETE MIX DESIGN
 - b. CONCRETE CYLINDERS AND TESTING
 - c. CAST-IN-PLACE CONCRETE INCLUDING PLACEMENT OF FORM WORK AND REINFORCING STEEL
 - C. EXCAVATION - SHEETING, SHORING AND BRACING AS PER 1704.19 AND 3304.4.1
 - E. STEEL CONSTRUCTION AS PER SECTION 1704.3
 - a. WELDING
4. IN CONFORMANCE WITH THE NEW YORK CITY BUILDING CODE, THE OWNER'S ENGINEER SHALL BE RETAINED TO CONDUCT THE REQUIRED SPECIAL INSPECTIONS.
5. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SCOPE AND DETAILED REQUIREMENTS FOR INSPECTIONS AND TESTING.
6. REFER TO THE PROJECT SPECIFICATIONS AND DRAWINGS FOR INSPECTION AND TESTING REQUIREMENTS PERTAINING TO WORK OF OTHER TRADES.

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Project

111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

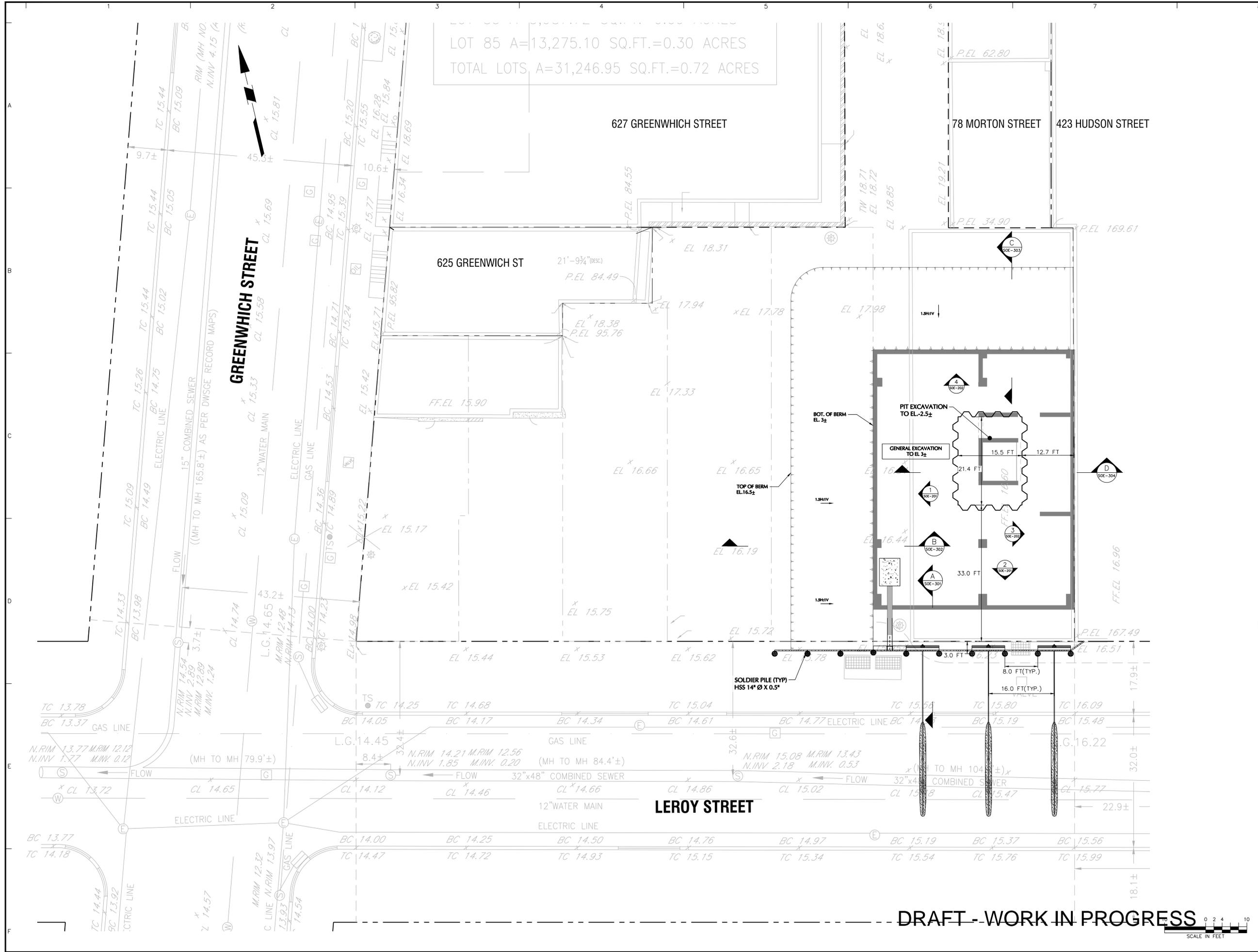
NEW YORK NEW YORK

Drawing Title

SUPPORT OF EXCAVATION PLAN

Project No. 170370001	Drawing No. SOE-001
Date 01/04/2016	
Scale N.T.S.	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 1 of 8

DRAFT - WORK IN PROGRESS



LOT 85 A=13,275.10 SQ.FT.=0.30 ACRES
 TOTAL LOTS A=31,246.95 SQ.FT.=0.72 ACRES

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 NEW YORK NEW YORK

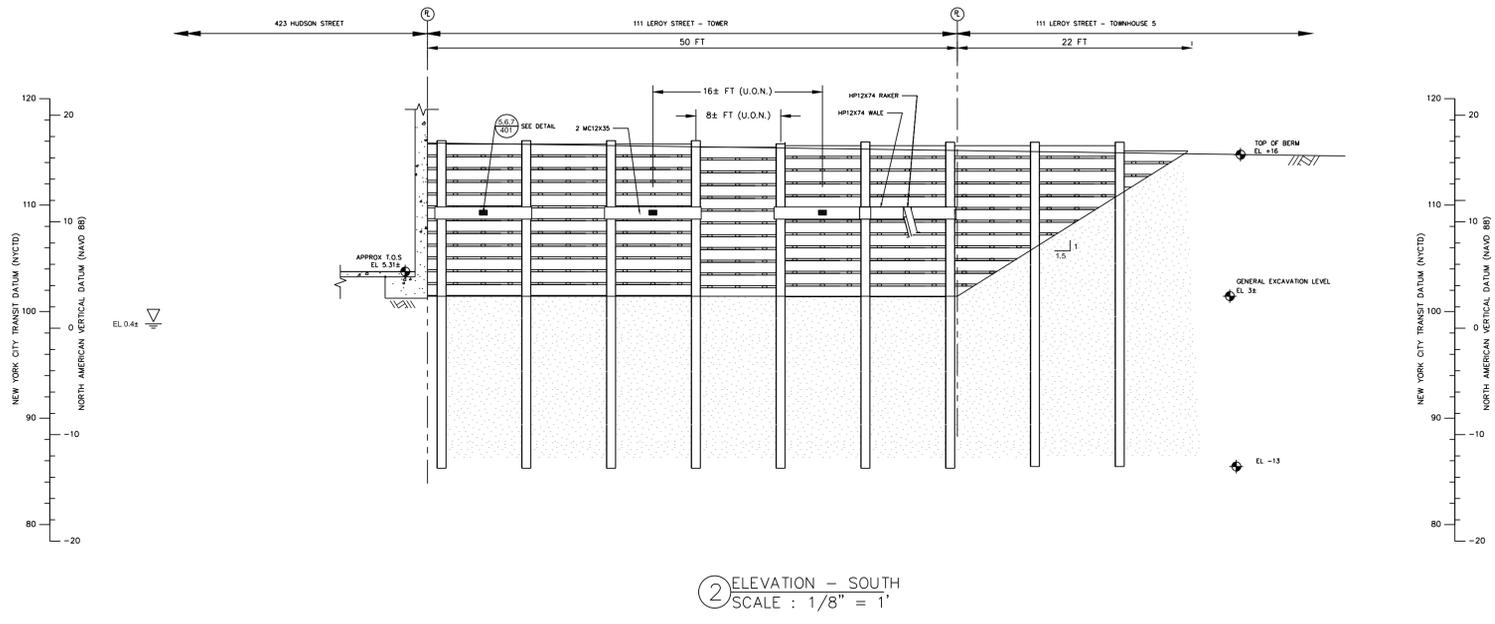
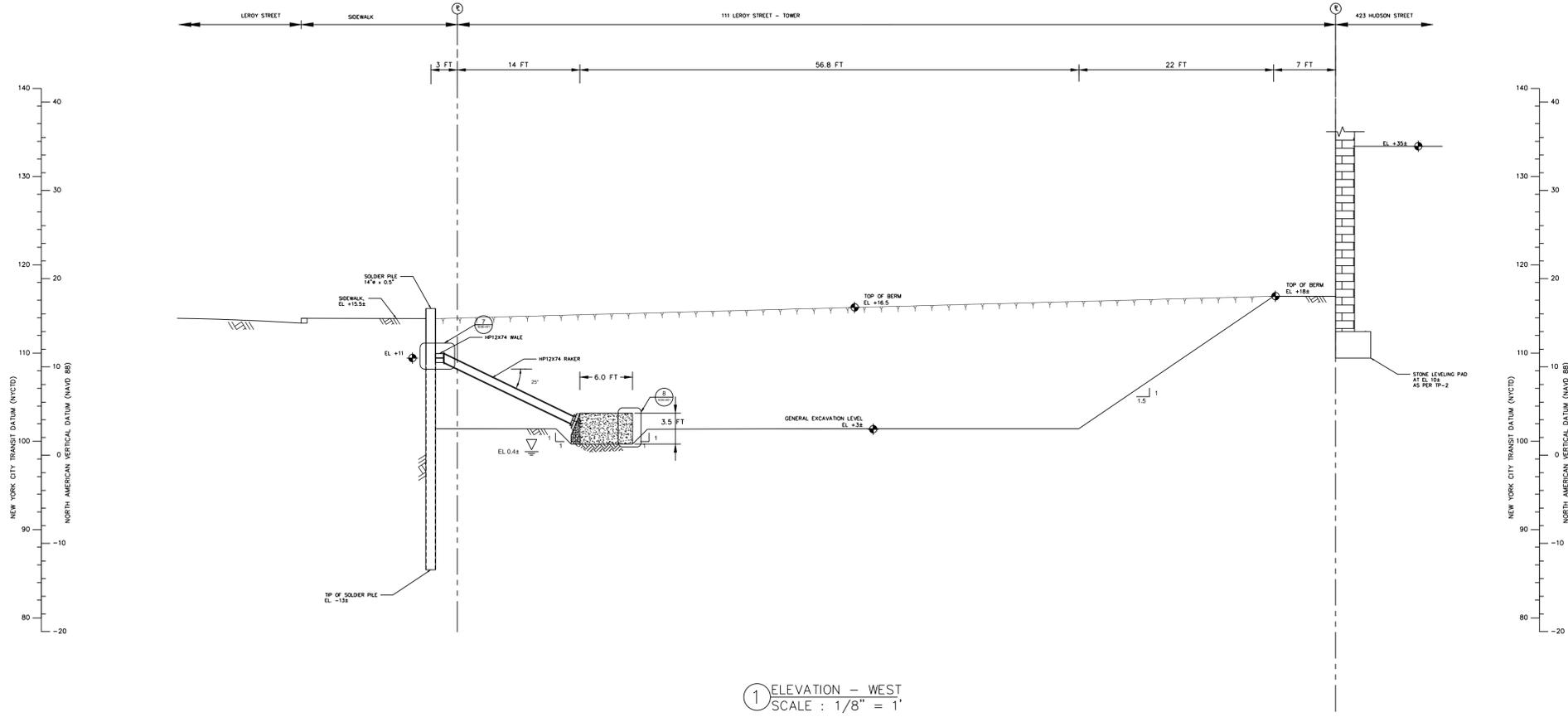
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**SUPPORT OF
 EXCAVATION PLAN**

Project No. 170370001	Drawing No. SOE-101
Date 01/04/2016	
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 2 of 8

DRAFT - WORK IN PROGRESS



PROJECT NO. # SUBMISSION DATE: X LANGAN



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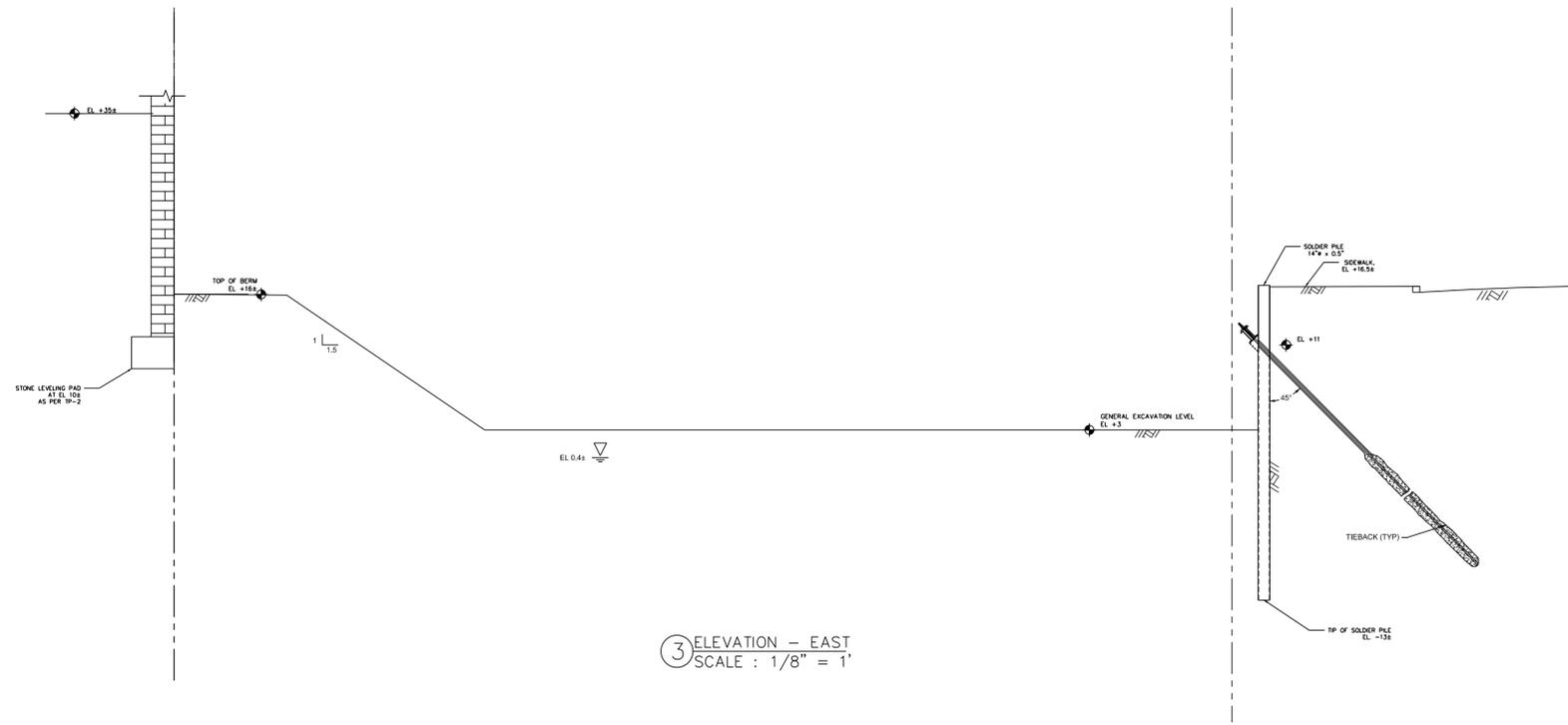
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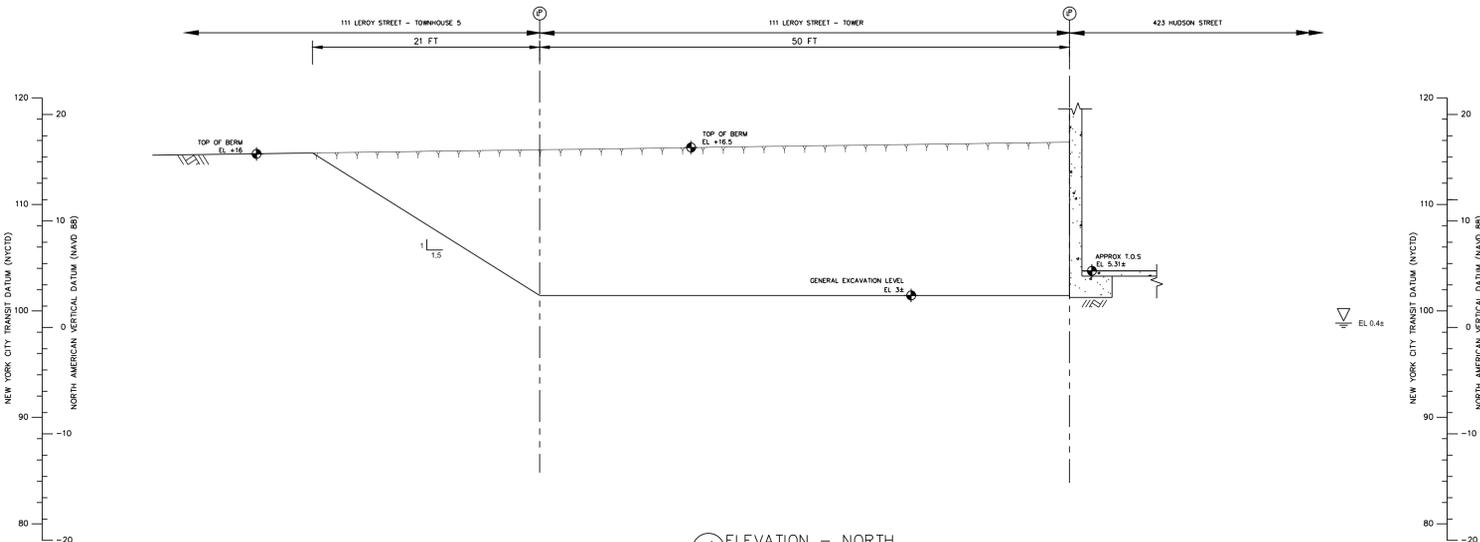
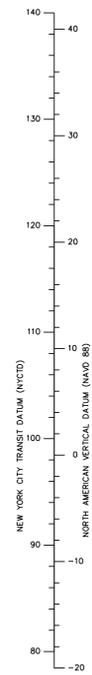
ELEVATIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-201
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 3 of 8

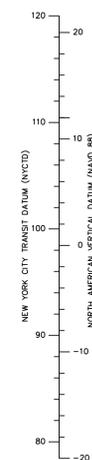
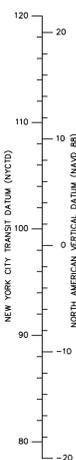
A
B
C
D
E
F



③ ELEVATION - EAST
SCALE : 1/8" = 1'



④ ELEVATION - NORTH
SCALE : 1/8" = 1'



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BLOCK No. 602, LOT No.83-85
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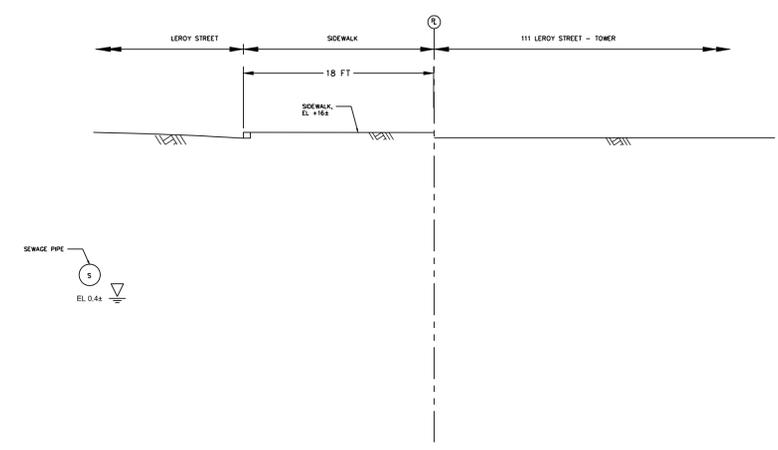
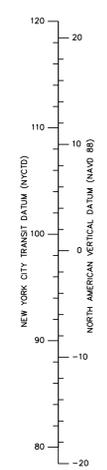
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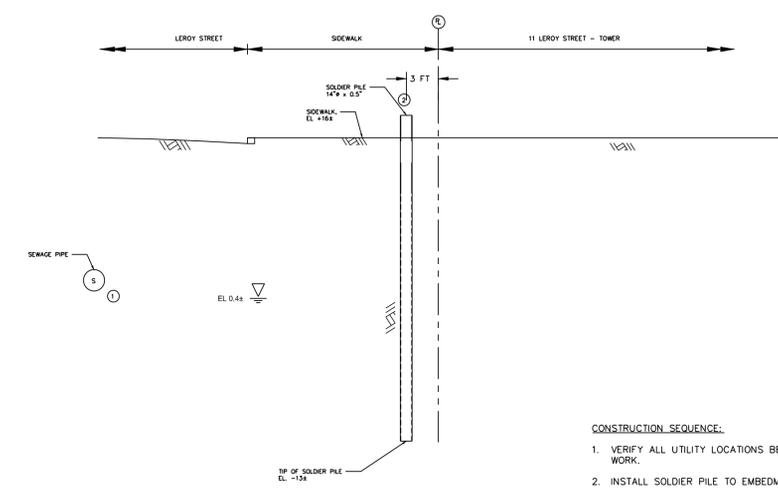
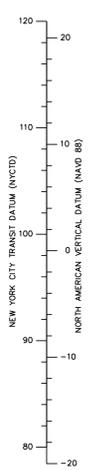
ELEVATIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-202
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 4 of 8

DRAFT - WORK IN PROGRESS

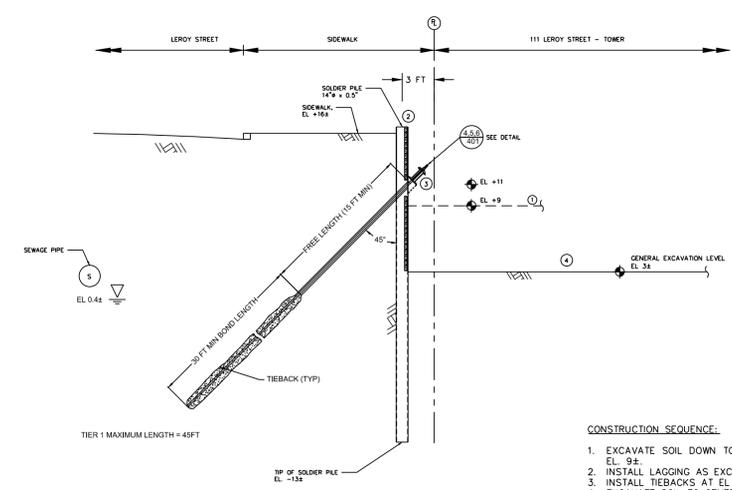
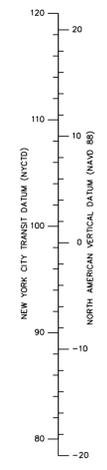


SECTION A - EXISTING CONDITIONS



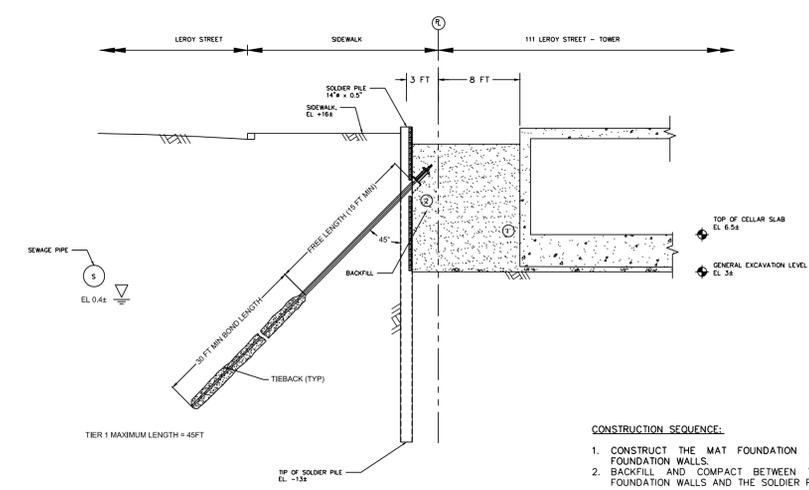
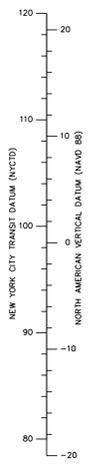
- CONSTRUCTION SEQUENCE:
1. VERIFY ALL UTILITY LOCATIONS BEFORE STARTING WORK.
 2. INSTALL SOLDIER PILE TO EMBEDMENT DEPTH.

SECTION A - STAGE 1



- CONSTRUCTION SEQUENCE:
1. EXCAVATE SOIL DOWN TO TEMPORARY LEVEL AT EL. 92.
 2. INSTALL LAGGING AS EXCAVATION PROCEEDS.
 3. INSTALL TIEBACKS AT EL. 112.
 4. EXCAVATE SOIL TO GENERAL EXCAVATION LEVEL.

SECTION A - STAGE 2



- CONSTRUCTION SEQUENCE:
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.
 2. BACKFILL AND COMPACT BETWEEN THE NEW FOUNDATION WALLS AND THE SOLDIER PILES.

SECTION A - STAGE 3

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Project

111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

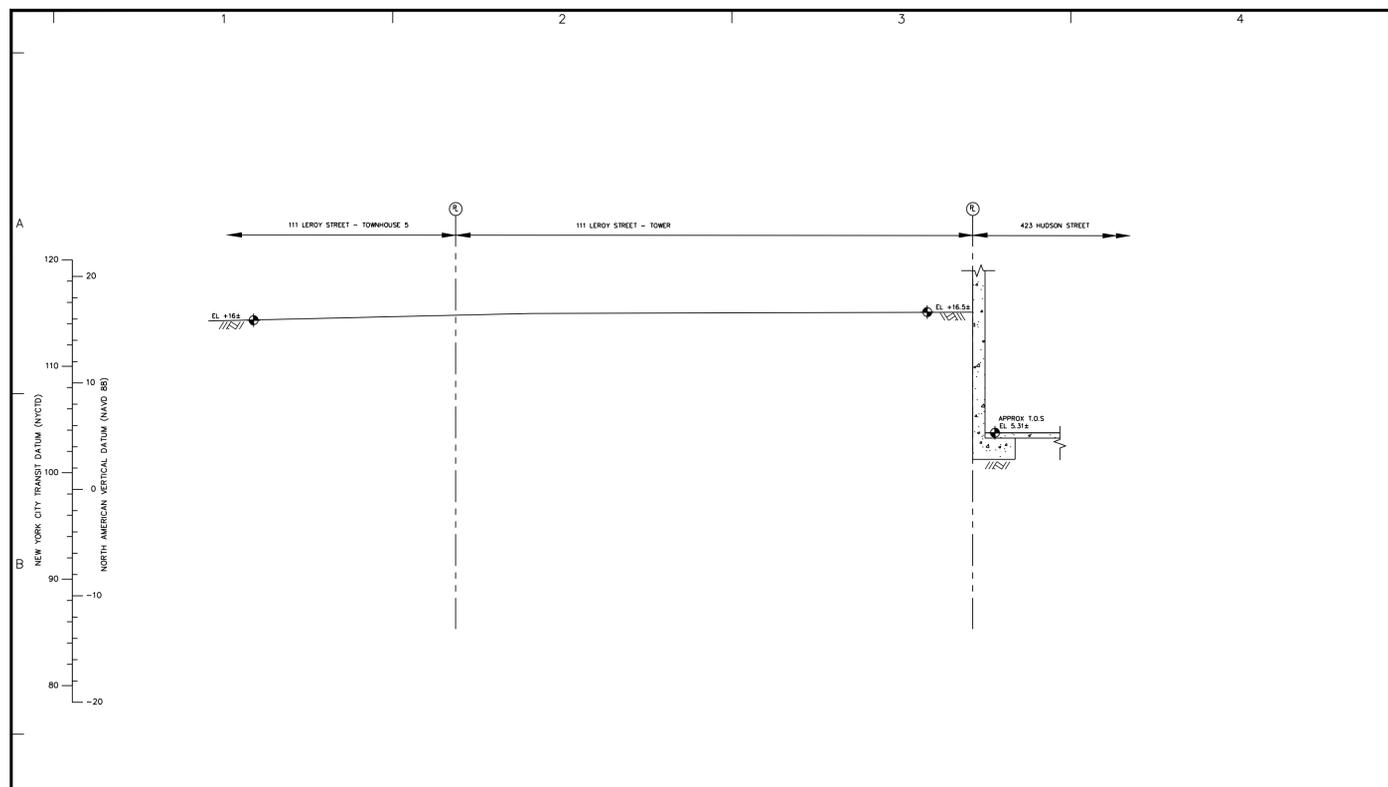
NEW YORK NEW YORK

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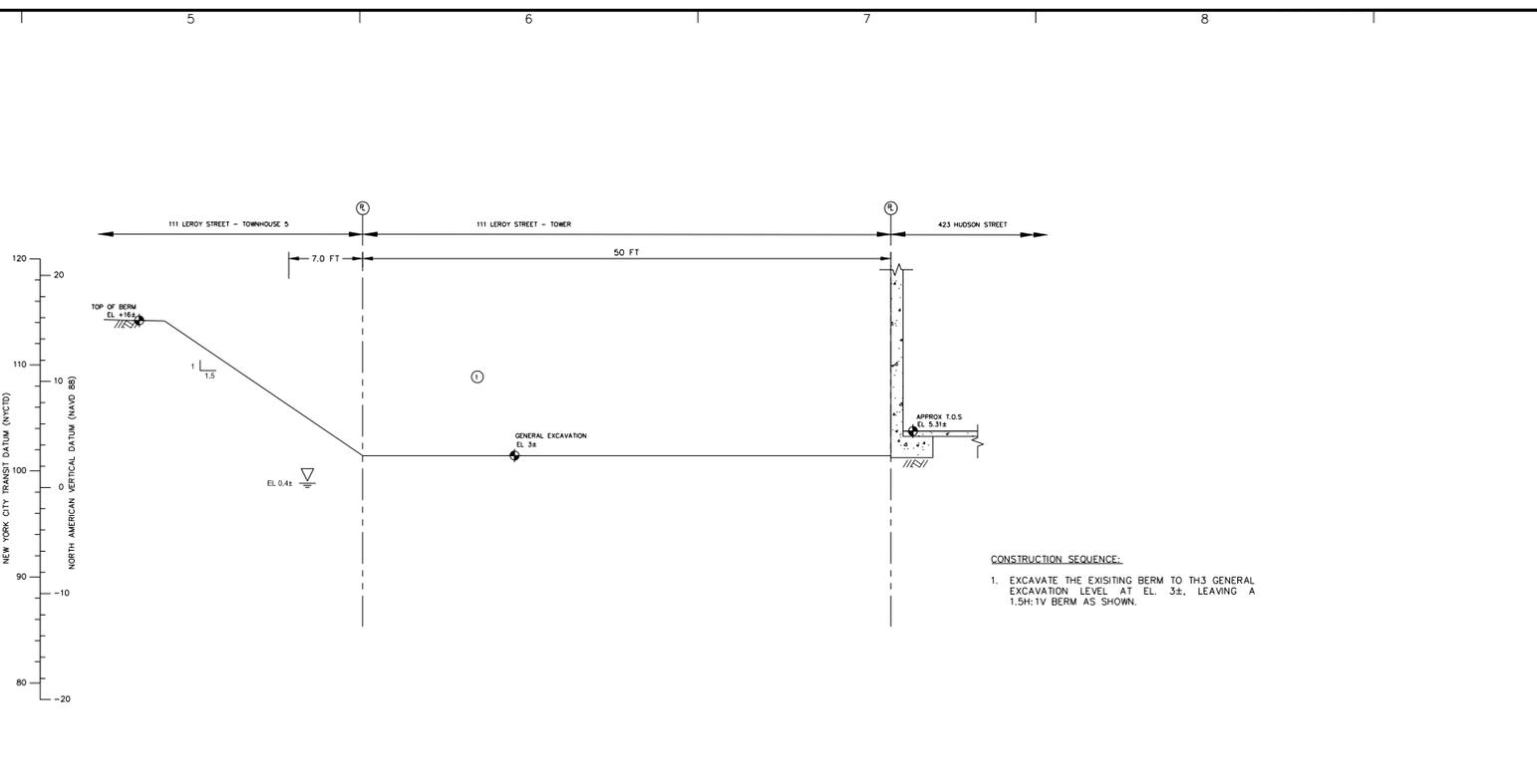
SECTIONS

Project No. 170370001	Drawing No. SOE-301
Date 01/04/2016	
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 5 of 8

DRAFT - WORK IN PROGRESS

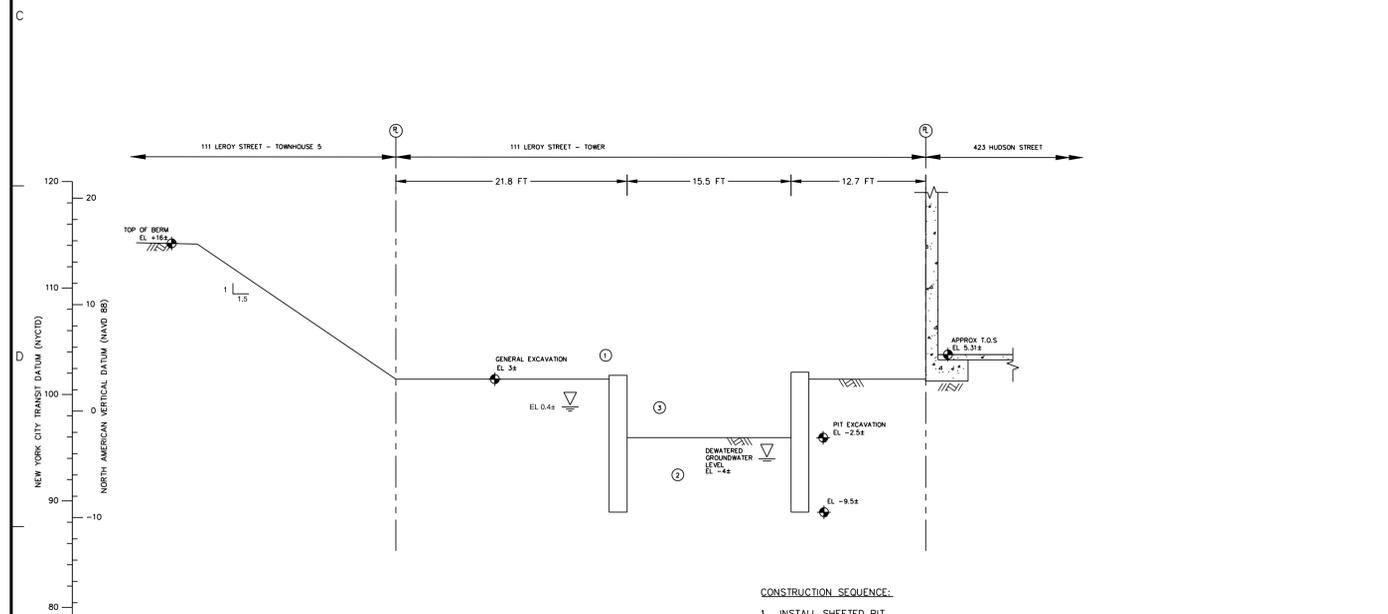


SECTION B - EXISTING CONDITIONS



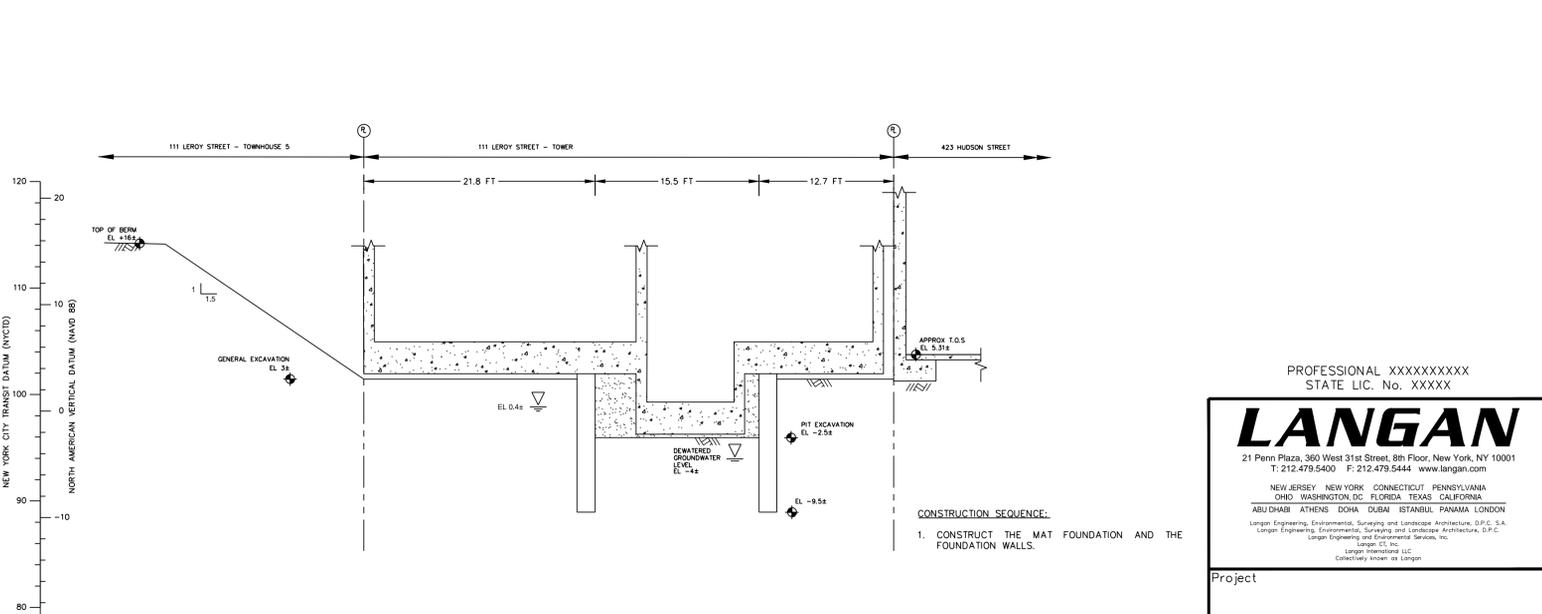
SECTION B - STAGE 1

CONSTRUCTION SEQUENCE:
1. EXCAVATE THE EXISTING BERM TO THE GENERAL EXCAVATION LEVEL AT EL. 3.4, LEAVING A 1.5H:1V BERM AS SHOWN.



SECTION B - STAGE 2

CONSTRUCTION SEQUENCE:
1. INSTALL SHEETED PIT.
2. DEWATER LOCALLY TO AT LEAST 2FT BELOW PIT EXCAVATION LEVEL.
3. EXCAVATE SOIL TO PIT ELEVATION EL. -2.5#.



SECTION B - STAGE 3

CONSTRUCTION SEQUENCE:
1. CONSTRUCT THE MAT FOUNDATION AND THE FOUNDATION WALLS.

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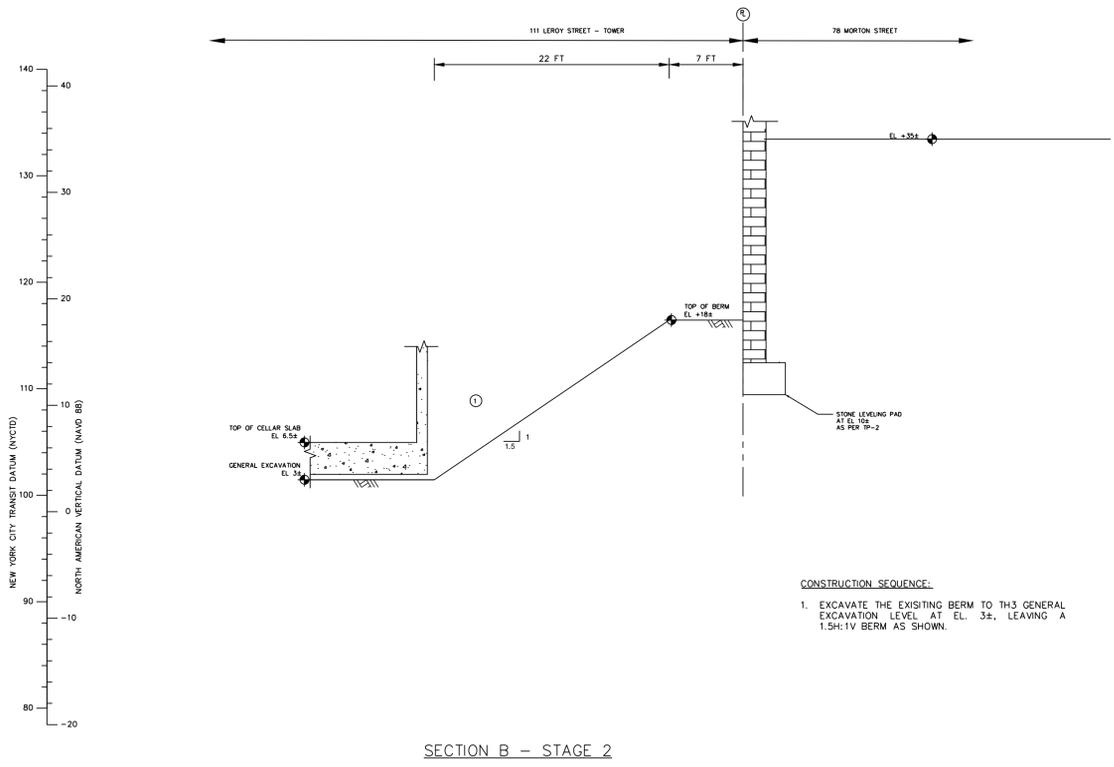
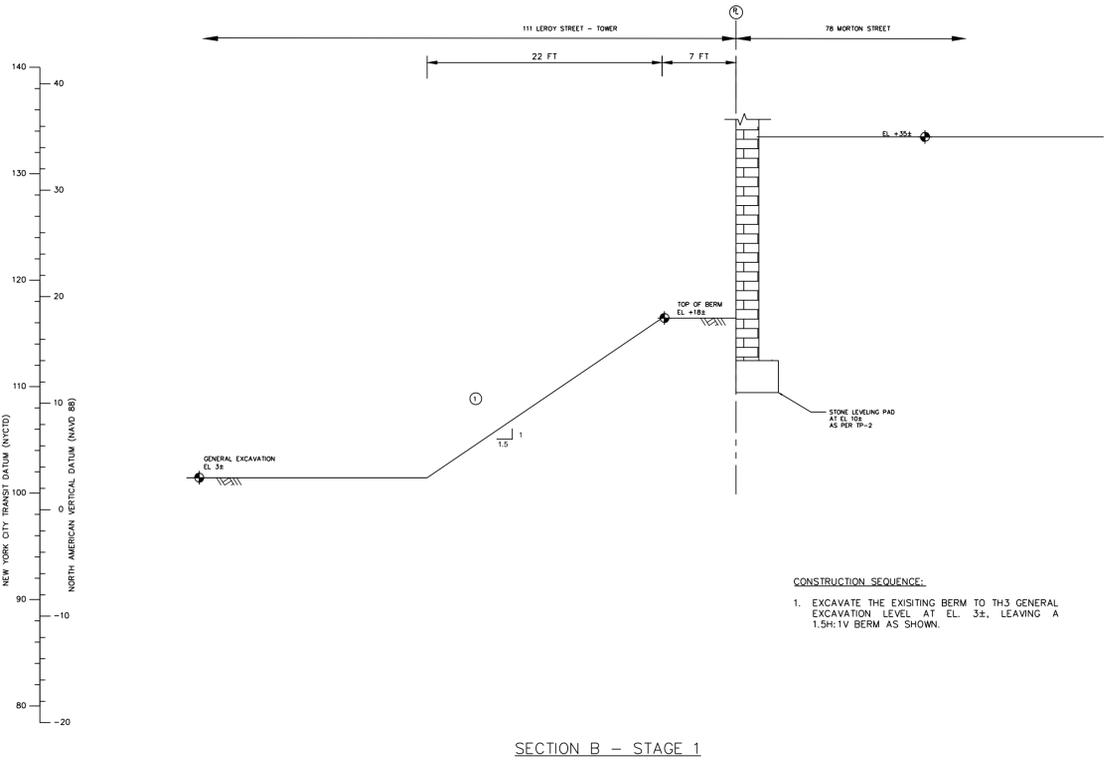
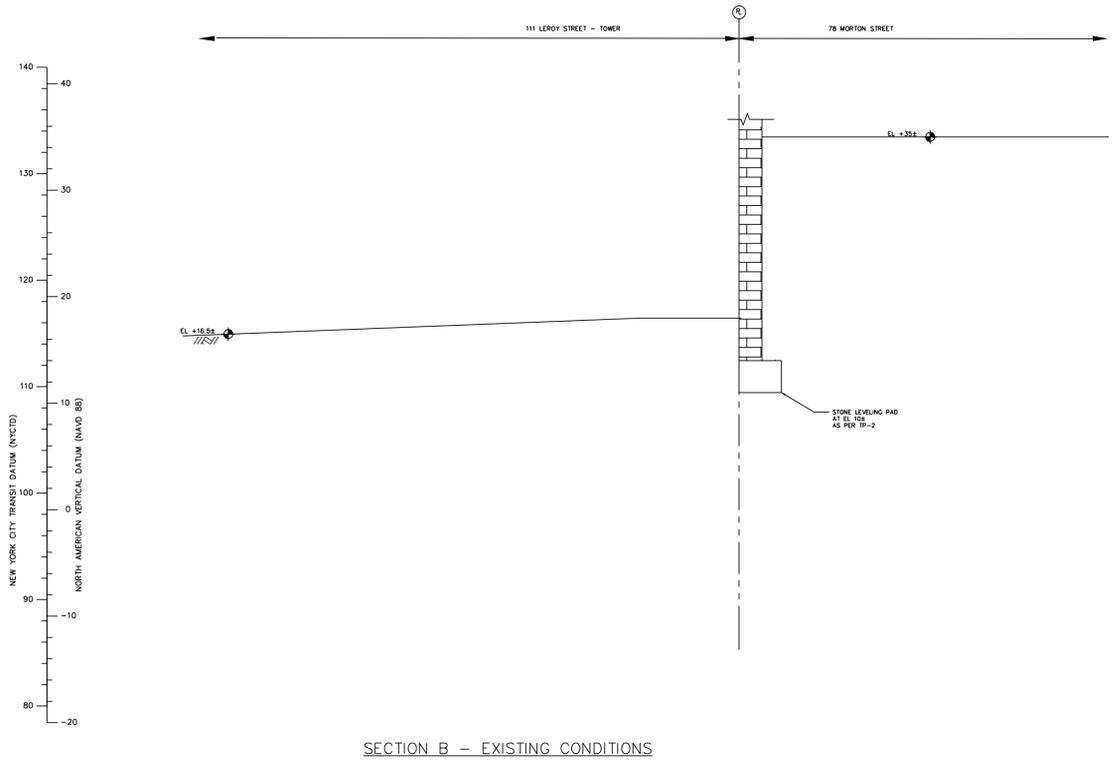
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LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
LANGAN INTERNATIONAL LLC
Collectively known as Langan

Project
111 LEROY STREET
BLOCK No. 602, LOT No. 83-85
MANHATTAN
NEW YORK NEW YORK
Drawing Title
SECTIONS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-302
Scale 1/8"=1'	
Drawn By RK	
Checked By JMD	Sheet 6 of 8
Submission Date 01/04/2016	

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LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C.
LANGAN ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
LANGAN S.R.L.
LANGAN INTERNATIONAL LLC
Collectively known as Langan

Project

111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

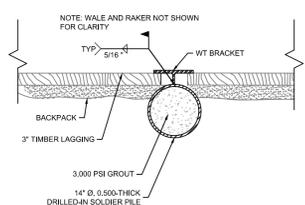
NEW YORK NEW YORK

Drawing Title

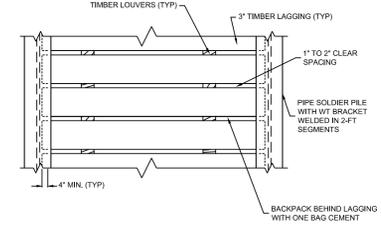
SECTIONS

Project No. 170370001	Drawing No.
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Scale 1/8"=1'	
Drawn By RK	
Submission Date 01/04/2016	Sheet 7 of 8

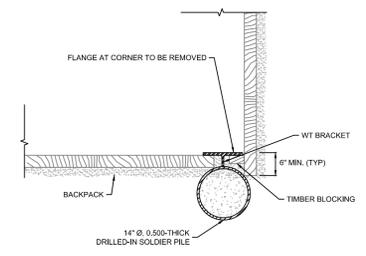
DRAFT - WORK IN PROGRESS



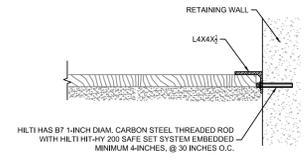
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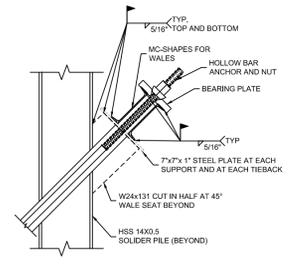
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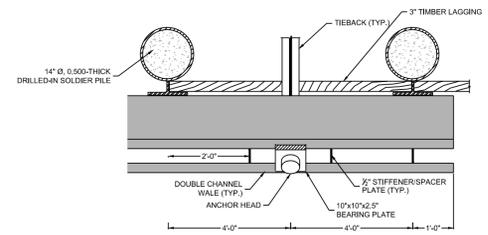
3 CORNER SOLDIER PILE DETAIL
SCALE: N.T.S.



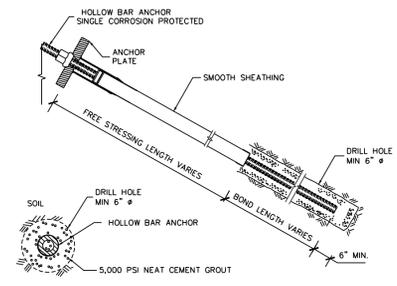
4 LAGGING SUPPORT AT STRUCTURE
SCALE: N.T.S.



5 TIEBACK SUPPORT DETAIL (SECTION)
SCALE: N.T.S.

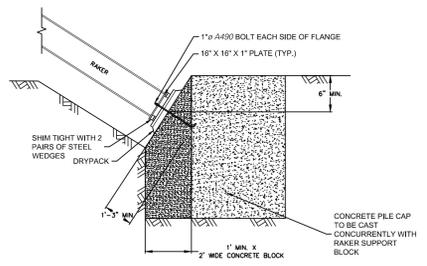


6 TIEBACK SUPPORT DETAIL (PLAN)
SCALE: N.T.S.

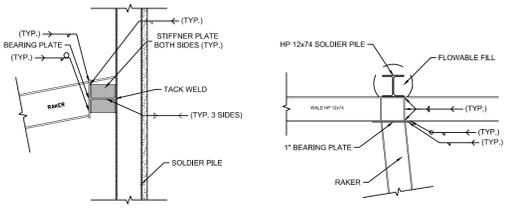


TIEBACK TYPE	WALL	DESIGN LOAD	LOCK-OFF	WALE	ANGLE
ANP H1200-64	WEST	85 KIP	85 KIP	(2) MC12x35	45°
ANP H1200-64	SOUTH	85 KIP	85 KIP	(2) MC12x35	45°

7 TIEBACK DETAIL
SCALE: N.T.S.



8 HEEL BLOCK CONNECTION DETAIL
SCALE: N.T.S.



9 WALLER RAKER SYSTEM DETAIL
SCALE: N.T.S.

PROFESSIONAL XXXXXXXXX
STATE LIC. No. XXXXX

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

NEW JERSEY NEW YORK CONNECTICUT PENNSYLVANIA
OHIO WASHINGTON, DC FLORIDA TEXAS CALIFORNIA
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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C., S.A.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project

111 LEROY STREET

BLOCK No. 602, LOT No.83-85
MANHATTAN

NEW YORK NEW YORK

Drawing Title

DETAILS

Project No. 170370001	Drawing No.
Date 01/04/2016	SOE-401
Scale 1/8"=1'	
Drawn By RK	Checked By JMD
Submission Date 01/04/2016	Sheet 8 of 8

DRAFT - WORK IN PROGRESS

APPENDIX B
PREVIOUS ENVIRONMENTAL REPORTS



SITE INVESTIGATION REPORT

**111 LEROY STREET
NEW YORK, NEW YORK**

**FOR
KMG PMA LEROY, LLC
1140 AVENUE OF THE AMERICAS, 12TH FLOOR
NEW YORK, NY 10036**

**ATC PROJECT NUMBER 15.20916.0009 TASK 2
August 11, 2005**

Prepared by: ATC Associates Inc.
104 East 25th Street
New York, New York 10010
(212) 353-8280 (phone)
(212) 979-8447 (fax)



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Fax 212.353.8306

August 11, 2005

KMG PMA Leroy, LLC
1140 Avenue of Americas, 12th Floor
New York, NY 10036
Attn: Mr. Burt Miller

RE: Site Investigation Report
Commercial Building
111 Leroy Street
New York, New York
ATC Project No. 15.20916.0009 Task 2

Dear Mr. Miller:

Attached is the Site Investigation Report for the Commercial Building located at 111 Leroy Street in Brooklyn, New York (the "Site"). The report includes the following sections: Introduction, Site Investigation, Results of Laboratory Analyses, Conclusions/Recommendations, and Limitations of the Site Investigation. This report also includes Figures, Tables and Appendices.

If you have any questions regarding this report, please feel free to call our office.

Sincerely,

ATC ASSOCIATES INC.

A handwritten signature in black ink, appearing to read 'C. Tallinger', written over the printed name.

Charles Tallinger
Project Geologist

A handwritten signature in black ink, appearing to read 'Michael J. Morris', written over the printed name.

Michael J. Morris, P.G.
Senior Project Manager

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2.0	SITE INVESTIGATION	2
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FIGURES

Figure 1: Soil Boring/Monitoring Well Location Map

TABLES

Table 1: Summary of Analytical Soil Results – July 2005

Table 2: Summary of Analytical Groundwater Results – July 2005

APPENDICES

Appendix A: Soil Boring Logs

Appendix B: Soil and Groundwater Sample Analytical Results

1.0 INTRODUCTION

ATC has performed a site investigation at the Commercial Building located at 111 Leroy Street New York, New York (the "Site"). The Site consists of a two (2)-story commercial building located at 111-113 Leroy Street between Greenwich and Hudson Streets, Manhattan, New York County, New York, NY 10014

ATC recently completed a Phase I Environmental Site Assessment (ESA) Report of the Site. The ESA revealed evidence of an active heating oil underground storage tank (UST) and a in-ground hydraulic lift, which was reportedly removed, at the Site. Additionally, based on the ESA, the historic Site operations including automobile services and surrounding properties may have impacted the Site. As a result, ATC performed site investigation activities to evaluate whether soil and groundwater beneath the Site has been impacted.

1.1 Project Scope of Work

The Project Scope of Work included the following:

- Prior to the initiation of subsurface activities, New York Dig Safe was contacted in order to assure that no subsurface utility services were encountered during drilling activities.
- Five (5) soil borings were advanced throughout the Site and on the adjacent properties. Specifically, one (1) soil boring was advanced at the Site and the remaining five were advanced on adjacent properties. The soil borings were situated to evaluate the areas of concern identified in the Phase I ESA Report.
- Five (5) soil samples collected from the Site were sent to AmeriSci Laboratories (AmeriSci) (New York State ELAP #10982). Select soil samples were submitted for volatile organic compounds (VOC) analysis under EPA Method 8260, semi-volatile organic compounds (SVOCs) under EPA Method 8270, polychlorinated biphenyls (PCBs) under EPA Method 8082 and Priority Pollutant Metals (PPM) analysis under EPA Method 6010.
- A groundwater sample was collected from the existing monitoring well (MW-1) at the Site and submitted to AmeriSci. The groundwater sample was submitted for VOC analysis under EPA Method 8260, SVOCs under EPA Method 8270 and PPM under EPA Method 6010.
- Preparation of this report summarizing the findings and conclusions with figures depicting soil boring and significant Site features.

2.0 SITE INVESTIGATION

2.1 Soil Sample Collection Procedures and Field Observations

On July 28, 2005, ATC attempted to advance six (6) soil borings throughout the Site and on adjacent properties using Geoprobe equipment. The borings were advanced to depths ranging from 8 to 20-feet below ground surface (bgs). Specifically, one (1) soil boring (B-3) was advanced within the Site structure, between the historical former hydraulic lift and UST; this was the only soil boring advanced on-Site. ATC attempted to advance one (1) additional soil boring at the Site in the vicinity of the UST; however, shallow refusal (at approximately 2ft bgs), was encountered at this location. Two (2) soil borings (B-1 and B-2) were advanced on the west adjacent parking lot and two (2) soil borings (B-4 and B-5) were advanced on the northern adjacent parking lot. Refer to Figure 2 for a Soil Boring Location Map illustrating the location of these soil borings.

Utilizing the Geoprobe equipment, the soil borings were continuously advanced in 4 foot intervals and field screened for evidence of contamination. All soils were evaluated for visual and olfactory evidence of contamination. Additionally, all soils were field screened with a photoionization detector (PID) for the presence of any volatile organic vapors.

Subsurface soils were encountered at the Site consisted of historic fill material composed of brick, sand and gravel. Native soils encountered at the Site below a depth of approximately 12 feet bgs consisted of silts, sands and gravel. Groundwater was not encountered in any of the borings. With the exception of soil boring B-5, no visual or olfactory evidence of petroleum contamination was observed in any of the borings. A slight petroleum odor and stained soil was observed in boring B-5. PID readings ranging from 0 to 46 parts per million were detected in the soils at is boring. Discrete soil samples were collected from selected intervals and submitted for laboratory analysis. Please refer to Appendix A for the complete soil boring logs.

All sampling equipment which contacted soil was decontaminated between soil borings using analconox wash, water rinse, and a secondalconox wash and water rinse. All soil samples were placed in appropriate containers supplied by the laboratory. ATC completed all chain of custody documents prior to sample shipment. The samples were cooled to 4 degrees centigrade (wet ice) during shipment to the laboratory.

One (1) soil sample was collected from each boring. A total of five (5) soil samples were submitted to AmerSci for VOC analysis under EPA Method 8260, SVOCs under EPA Method 8270, PCBs under EPA Method 8082 and PPM analysis under EPA Method 6010.

2.2 Groundwater Sample Collection Procedures and Field Observations

On July 28, 2005, ATC personnel collected a groundwater sample from the existing groundwater monitoring well (MW-1) at the Site. Water was encountered in the monitoring well at 19.76 feet bgs and no floating product was observed on the water table. An attempt was made to purge the monitoring well before sample collection; however, due to low recharge of the well a grab sample was collected without purging of the monitoring well. The groundwater sample was collected with dedicated ¾" polyethylene bailer. The

SITE INVESTIGATION
INDUSTRIAL PROPERTY
111 LEROY STREET
NEW YORK, NEW YORK

groundwater sample was placed in an appropriate container supplied by the laboratory. ATC completed all chain of custody documents prior to sample shipment.

The groundwater sample was submitted to AmerSci for VOC analysis under EPA Method 8260, SVOCs under EPA Method 8270 and PPMs analysis under EPA Method 6010.

3.0 RESULTS OF LABORATORY ANALYSES

3.1 Soil Sample Results

A complete copy of the laboratory report from the soil sampling program is provided in Appendix B. The soil sample results are summarized in Table 1.

3.1.1 VOC Soil Analytical Results

Detectable concentrations of VOCs were identified in all soil samples; however, no VOC concentrations were detected in excess of their respective NYSDEC Technical and Administrative Guidance Memorandum #4046-Determination of Soil Cleanup Objectives and Cleanup Levels Recommended Soil Cleanup Objectives (NYSDEC TAGM RSCO). It is important to note that only acetone and methylene chloride (both common laboratory contaminants) were detected in soil samples B-1, B-3 and B4, while detectable concentrations of chlorinated VOCs (tetrachloroethylene(PCE)) and petroleum VOCs were detected in B-2 and B-5 respectively.

3.1.2 SVOC Soil Analytical Results

No elevated concentrations of SVOCs were detected in excess of their NYSDEC TAGM RSCO in soil samples B-1, B-2, B-3 or B-5. Elevated concentrations of SVOCs were detected in excess of their NYSDEC TAGM RSCO in soil sample B-4. These SVOCs consisted of: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k) fluoranthene and chrysene. These concentrations ranged from zero to one (1) order of magnitude above their NYSDEC TAGM RSCO.

3.1.3 PPM Soil Analytical Results

Elevated concentrations of PPMs were detected in excess their NYSDEC TAGM RSCO and the Eastern USA Background levels in all soil samples. These elevated metals consisted of: lead, nickel and zinc. These concentrations ranged from zero to one (1) orders of magnitude above their NYSDEC TAGM RSCO and/or their Eastern USA Background concentrations.

3.1.4 PCB Soil Analytical Results

No detectable concentrations of PCBs were detected in any of the soil samples collected.

3.2 Groundwater Sample Results

A complete copy of the laboratory report from the groundwater sampling program is provided in Appendix B. The groundwater sample results are summarized in Table 2.

3.2.1 VOC Groundwater Analytical Results

Elevated concentrations of VOCs were detected above their respective NYSDEC Division of Water

Technical and Operational Guidance Series Memo (TOGS) Groundwater Quality Standard in the groundwater sample collected from MW-1. Specifically, chlorinated VOCs including cis-1,2-dichloroethylene (14.9 µg/L), trans-1,2-dichloroethylene (6.51 µg/L), trichloroethylene (18.7 µg/L) and tetrachloroethylene (21.2 µg/L) were detected in MW-1. These concentrations exceed their TOGS Groundwater Quality Standards of 5 µg/L for cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, trichloroethylene and 0.7 µg/L for tetrachloroethylene.

3.2.2 SVOC Groundwater Analytical Results

No concentrations of SVOCs were detected in the groundwater sample collected from MW-1 above their respective laboratory method detection limits.

3.2.3 PPM Groundwater Analytical Results

PPM concentrations were detected in monitoring well MW-1 above laboratory detection limits. However, no elevated PPM concentrations were detected above their respective NYSDEC TOGS Groundwater Quality Standards.

4.0 CONCLUSIONS/RECOMMENDATIONS

Based on the results of this investigation no field evidence of contamination was observed in the one (1) soil boring advanced at the Site. Analytical results confirm that the on-site soils have not been impacted with VOCs, SVOCs or PCBs. As a result it does not appear that the active heating oil UST or the reportedly removed hydraulic lift have impacted the Site. However, historic fill materials were encountered at the Site as well as the remaining soil borings advanced as part of this Investigation. A significant amount of material found in Manhattan is likely to consist of historic fill materials which typically contain heavy metals and SVOCs.

Additionally, field evidence and detectable concentrations of VOCs was detected in soil boring B-5 and detectable concentrations of tetrachloroethylene were detected in soil boring B-2. Chlorinated solvents were also detected above NYSDEC TOGS Groundwater Quality Standards in the groundwater sample collected in MW-1.

Based on these findings, since it is our understanding that the Site will be redeveloped and historic fill materials encountered beneath the Site and the surrounding areas will be disturbed, these historic fill materials are to be handled and disposed of properly, in accordance with applicable regulations.

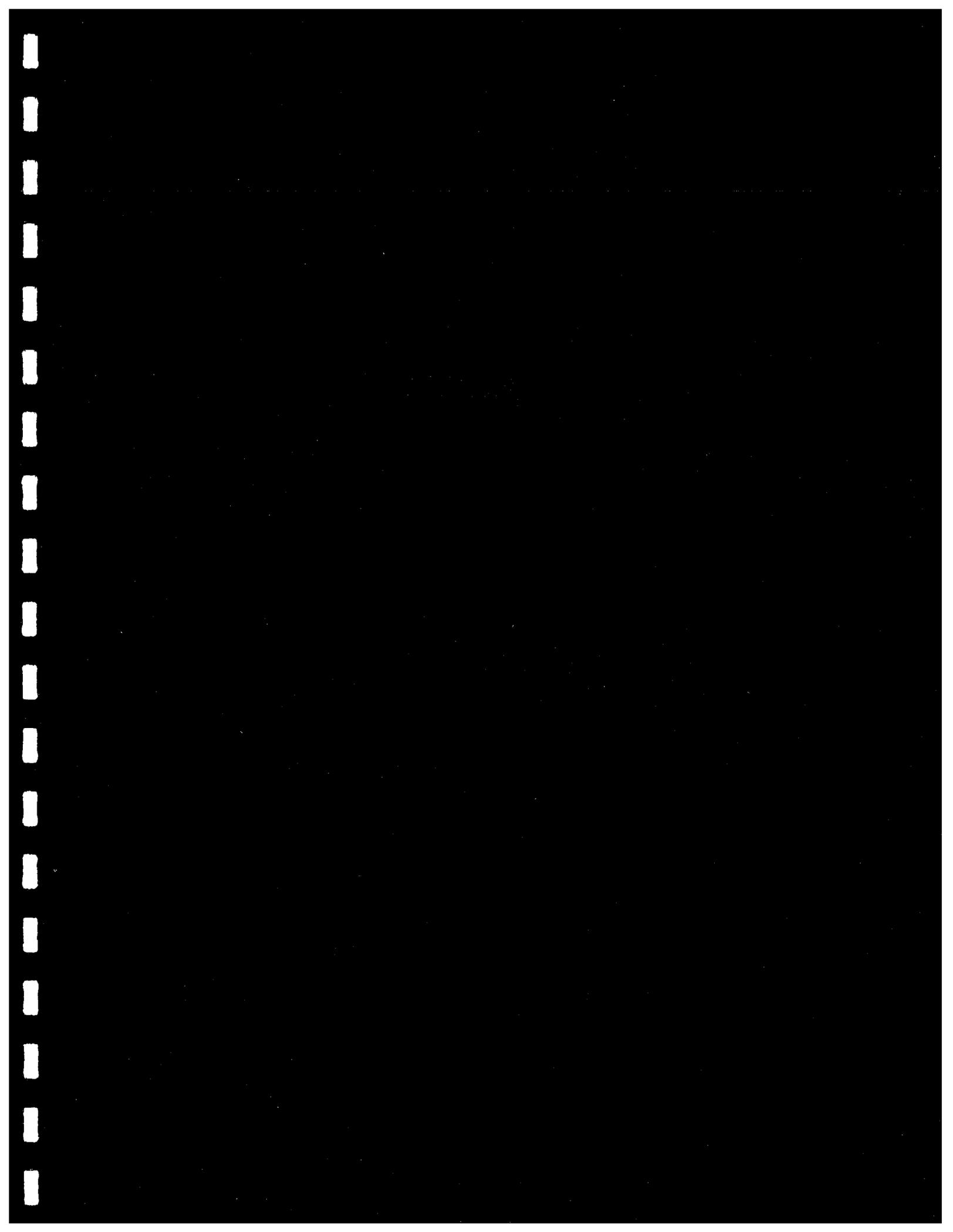
Further, ATC recommends that the NYSDEC be notified of the presence of chlorinated solvents identified in monitoring well MW-1 as further investigation and/or remediation is warranted. The estimated costs associated with the remediation of chlorinated impacted groundwater at this Site will range from \$50,000 to \$300,000.

5.0 LIMITATIONS OF THE SITE INVESTIGATION

ATC has prepared this Site Investigation in accordance with the contract scope of work, using reasonable efforts to attempt to identify areas of potential liability associated with recognized environmental conditions in the Site. Any survey for the presence of soil or groundwater contamination in the Site was focused in nature. The survey may not be relied upon as a comprehensive investigation for the presence of such contamination in all areas of the Site or as meeting any standards established for conducting such surveys. ATC does not warrant the accuracy or completeness of information provided by secondary sources. ATC does not warrant that all contamination that may exist on the Site has been discovered, that the Site is suitable for any particular purpose or that the Site is clean or free of liability. Any cost estimates are based on general comparisons with past projects of similar scope and size, and actual costs or design-phase estimates may vary substantially from these estimates.

This report is for the use and benefit of, and may be relied upon by, KMG PMA Leroy, LLC, and any of its affiliates. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual Property conditions may change with time, and that hidden conditions may exist at the Property that were not discovered within the authorized scope of the assessment.

ATC makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either express or implied. Unless otherwise agreed upon in writing by ATC and a third party, ATC's liability to any third party authorized to use or rely on this report with respect to any acts or omissions shall be limited to a maximum of \$1,000,000.



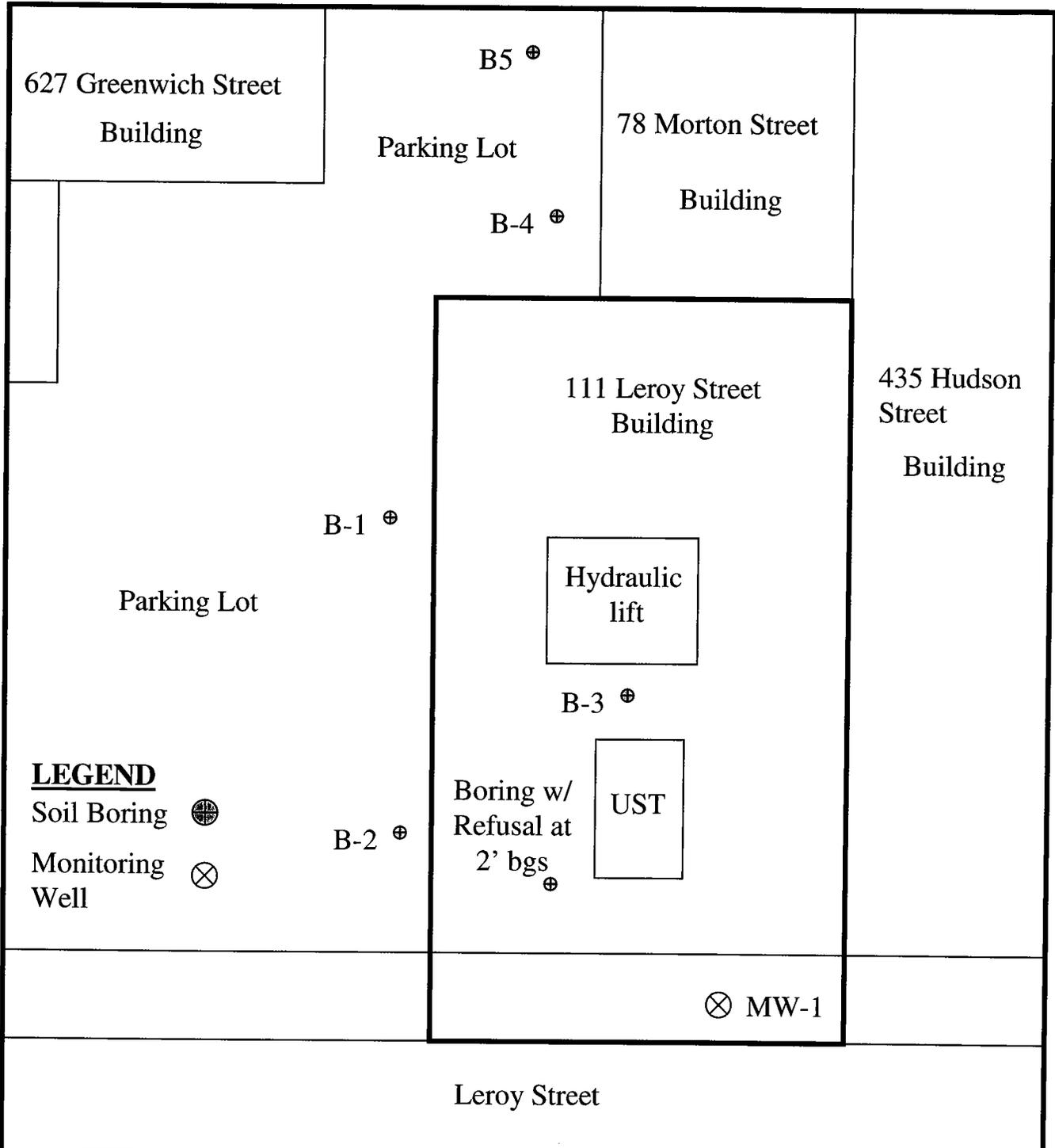
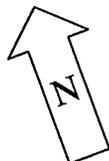


FIGURE 1 – SOIL BORING/MONITORING WELL LOCATION MAP



104 East 25th Street, 8th Floor
 New York, NY 10010-2917
 (212) 353-8280 • Fax (212) 979-8447



CLIENT: KMG PMA Leroy, LLC
SITE: 111 Leroy Street
 New York, New York 10014
PROJECT #: 15.20916.0009 Task 2
SCALE: Not to Scale

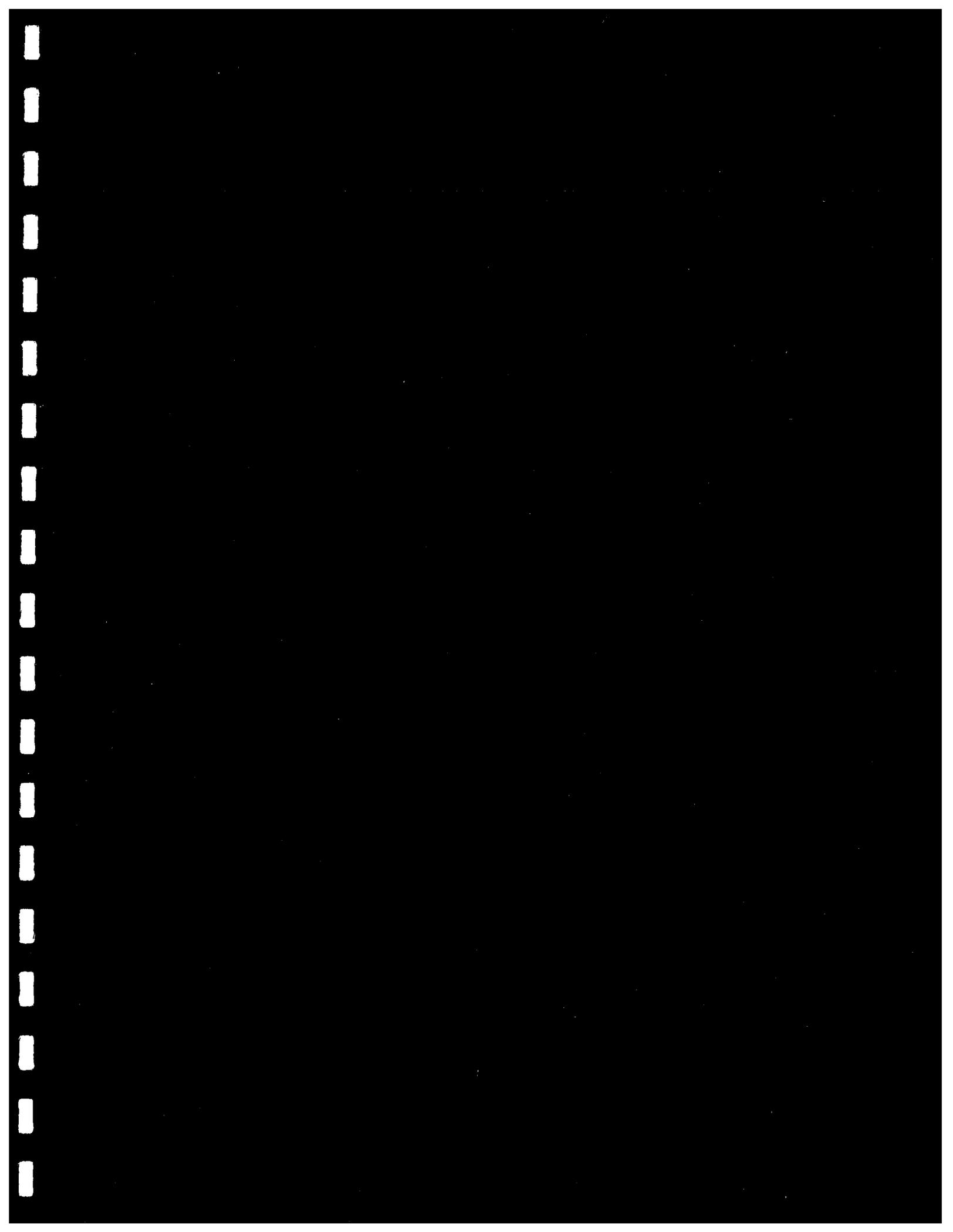


TABLE 1

SUMMARY OF ANALYTICAL SOIL RESULTS - July 2005

111 LEROY STREET
NEW YORK, NEW YORK

Sample ID: Lab Sample Number Sample Depth (ft) Date Collected Media	B-1 001 11.5-12 7/28/2005 Soil	B-2 002 19.5-20 7/28/2005 Soil	B-3 003 11.5-12 7/28/2005 Soil	B-4 004 10.5-11 7/28/2005 Soil	B-5 005 18.5-19 7/28/2005 Soil	TAGM Recommended Soil Cleanup Objective	Eastern USA Background
Volatile Organic Compounds Acetone Benzene sec-Butylbenzene n-Butylbenzene Isopropylbenzene Methylene Chloride Naphthalene n-Propylbenzene Tetrachloroethylene	76.7 ND ND ND ND 17.9 ND ND ND	84.5 ND ND ND ND 33.9 ND ND 73.2	ND ND ND ND ND 26.3 ND ND ND	79.9 ND ND ND ND 32.8 ND ND ND	ND 29.7 40.7 70.4 71.4 43.5 44.3 100 ND	200 60 10000 10000 2300 100 13000 3700 1400	NS NS NS NS NS NS NS NS NS
Semi-Volatile Organic Compounds Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene Fluoranthene Pyrene	ND ND ND 629 ND 974 835	ND ND ND ND ND ND ND	ND ND ND ND ND ND ND	863 826 809 863 839 1390 1690	ND ND ND ND ND ND 9370	224 61 224 224 400 50000 50000	NS NS NS NS NS NS NS
Priority Pollutant Metals Arsenic Cadmium Chromium Copper Lead Mercury Nickel Zinc	4.93 ND 8.7 16.8 1440 4.02 7.09 299	ND ND 8.46 15.8 10.4 ND 61.9 19.8	3.52 0.414 11.7 23.2 1920 0.181 9.68 862	6.24 0.897 13.6 17.8 1460 0.389 12.5 942	ND ND 11.4 12.9 12.1 ND 53.8 31.2	7.5 or SB 10 or SB 50 or SB 25 or SB SB 0.1 13 or SB 20 or SB	3-12 0.1 - 1 1.5 - 40 1 - 50 200 - 500 0.001 - 2 0.5 - 25 9 - 50
Polychlorinated Biphenyls	ND	ND	ND	ND	ND	10000	NS

*-Sample depth is in feet below ground surface
 All concentrations reported in parts per billion except for PP Metals which are reported in parts per million
 ND-Non-Detect
 NS-No Standard
 SB-Site Background
 NA-Not Applicable

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS - JULY 2005

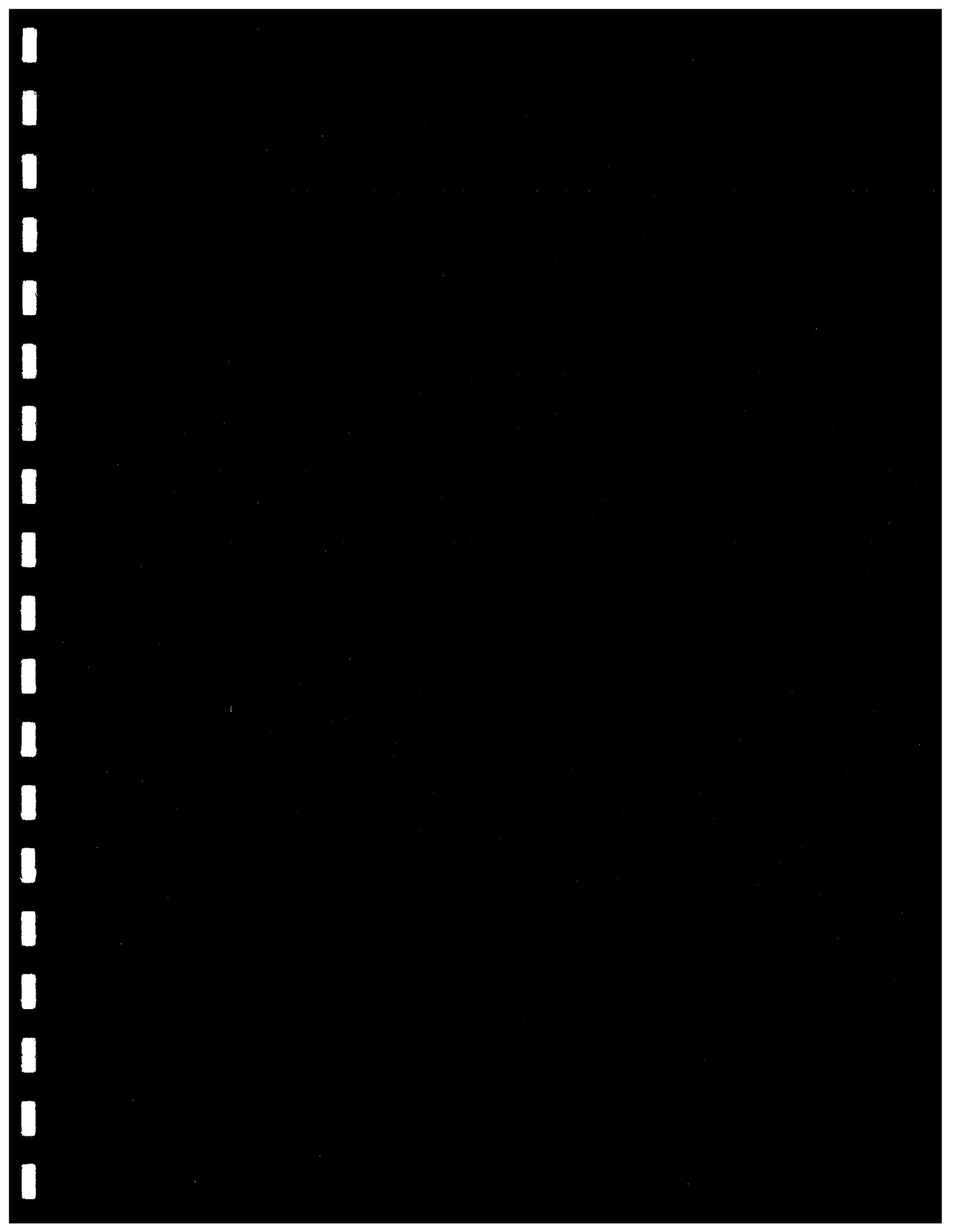
**111 LEROY STREET
NEW YORK, NEW YORK**

Sample ID Lab Sample Number Date Collected Media	MW-1 001 7/28/2005 Groundwater	TOGS Groundwater Quality Standards
Volatile Organic Compounds		
cis-1,2-Dichloroethylene	14.9	5
trans-1,2-Dichloroethylene	6.51	5
Trichloroethylene	18.7	5
Tetrachloroethylene	21.2	0.7
Semi-Volatile Organic Compounds	ND	NS
Priority Pollutant Metals		
Arsenic	0.0367	50000
Beryllium	0.00745	3000
Chromium	0.349	50000
Copper	0.373	200000
Lead	0.124	50000
Mercury	0.000315	700
Nickel	0.79	100000
Zinc	0.546	66000

All concentrations reported in parts per billion except metals which are in parts per million

ND - Detected Below Method Detection Limits

NS - No Standard





Please Reply To:

AmeriSci Boston
Eight School Street
Weymouth, MA 02189
TEL:(781)337-9334 FAX:(781)337-7642

FACSIMILE TELECOPY TRANSMISSION

To: CHARLES TALLINGER
ATC Associates

AmeriSci Job# 0507-00364

Subject: 111 LEROY ST NYC: SOILS &

Fax # 212-979-8447
charles.tallinger@at
michael.morris@atcassociates.com

Date: Friday, August 05, 2005

Time: 6:24:33PM

Comments:

REVISED
8/5/2005

This report consists of 27 pages, including:

Cover Page (Facsimile Telecopy Transmission)	<u>1</u>	pages
Laboratory Report	<u>23</u>	pages
Chain of Custody Record	<u>1</u>	pages
Air bill	<u>1</u>	pages
Sample Receiving Form	<u>0</u>	pages
Miscellaneous	<u> </u>	pages

Revised cover sheet only [Signature]

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AmeriSci Boston
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 Weymouth, MA 02189
 781-337-9334

Laboratory Report

Report Date 08/05/2005
 Workorder No. 0507-00364

Customer: ATC Associates
 104 East 25th Street
 New York, NY 10010

Attention: CHARLES TALLINGER
 Subject: 111 LEROY ST NYC: SOILS &

Sample: 001 B-1
 Collection Date: 07/28/2005 Time: 11:00:00AM
 Matrix: SOIL

Received Date: 07/29/2005 Time: 11:00:00AM

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Priority Pollutant Metals							
Arsenic	6010B, SW-846	4.93	mg/Kg	2.27	JS	08/01/2005 / 1:00	
Antimony	6010B, SW-846	ND	mg/Kg	4.53	JS	08/02/2005 / 16:11	
Beryllium	6010B, SW-846	ND	mg/Kg	0.340	JS	08/01/2005 / 1:00	
Cadmium	6010B, SW-846	ND	mg/Kg	0.340	JS	08/01/2005 / 1:00	
Chromium	6010B, SW-846	8.70	mg/Kg	1.13	JS	08/01/2005 / 1:00	
Copper	6010B, SW-846	16.8	mg/Kg	5.66	JS	08/01/2005 / 1:00	
Lead	6010B, SW-846	1440	mg/Kg	3.40	JS	08/01/2005 / 1:00	
Mercury	SW-846; 7471	4.02	mg/Kg	0.155	NAP	08/05/2005 / 16:32	
Nickel	6010B, SW-846	7.09	mg/Kg	4.53	JS	08/01/2005 / 1:00	
Selenium	6010B, SW-846	ND	mg/Kg	4.53	JS	08/02/2005 / 16:11	
Silver	6010B, SW-846	ND	mg/Kg	0.340	JS	08/01/2005 / 1:00	
Zinc	6010B, SW-846	299	mg/Kg	11.3	JS	08/02/2005 / 16:11	
Thallium	6010B, SW-846	ND	mg/Kg	2.27	JS	08/01/2005 / 1:00	
PCB 8082-SOIL/SOLID							
PCB-1016	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 20:56	
PCB-1221	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 20:56	
PCB-1232	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 20:56	
PCB-1242	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 20:56	
PCB-1248	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 20:56	
PCB-1254	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 20:56	
PCB-1260	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 20:56	
PCB-1262	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 20:56	
PCB-1268	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 20:56	
TCMX (SURROGATE)		112	%		NAC	08/02/2005 / 20:56	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 001 B-1
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
DCB (SURROGATE)		84.9	%		NAC	08/02/2005 / 20:56	
Volatile Organics							
Dichlorodifluoromethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Vinyl Chloride	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Chloromethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Bromomethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Chloroethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Trichlorofluoromethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Acrolein	EPA 8260B	ND	ug/Kg	49	MVP	07/29/2005 / 16:56	
Acetone	EPA 8260B	76.7	ug/Kg	49	MVP	07/29/2005 / 16:56	B
1,1-Dichloroethylene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Iodomethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Carbon Disulfide	EPA 8260B	ND	ug/Kg	49	MVP	07/29/2005 / 16:56	
Methylene Chloride	EPA 8260B	17.9	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Acrylonitrile	EPA 8260B	ND	ug/Kg	49	MVP	07/29/2005 / 16:56	
Methyl-Tert-Butyl-Ether	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
trans-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,1-Dichloroethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
2-Butanone-(MEK)	EPA 8260B	ND	ug/Kg	49	MVP	07/29/2005 / 16:56	
Vinyl Acetate	EPA 8260B	ND	ug/Kg	49	MVP	07/29/2005 / 16:56	
2,2-Dichloropropane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
cis-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Chloroform	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Bromochloromethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,1,1-Trichloroethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,1-Dichloropropene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Carbon Tetrachloride	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Benzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,2-Dichloroethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Trichloroethylene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,2-Dichloropropane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
4-Methyl-2-Pentanone (MIBK)	EPA 8260B	ND	ug/Kg	49	MVP	07/29/2005 / 16:56	
cis-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
2-Chloroethyl vinyl ether	EPA 8260B	ND	ug/Kg	49	MVP	07/29/2005 / 16:56	

Certifications:

MA: MA069 NY:10982

CT: PH0119

RI:A45

NJ: 59744

ND = Not Detected

PQL= Practical Quantitation Limit



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 001 B-1
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Toluene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
trans-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Bromodichloromethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,1,2-Trichloroethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,2-Dibromoethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
2-Hexanone	EPA 8260B	ND	ug/Kg	49	MVP	07/29/2005 / 16:56	
1,3-Dichloropropane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Tetrachloroethylene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Dibromochloromethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Chlorobenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Ethylbenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
M & P XYLENE	EPA 8260B	ND	ug/Kg	20	MVP	07/29/2005 / 16:56	
O-XYLENE	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Styrene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Bromoform	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Isopropylbenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,2,3-Trichloropropane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
n-Propylbenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Bromobenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
2-Chlorotoluene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,3,5-Trimethylbenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
4-Chlorotoluene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
tert-Butylbenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,2,4-Trimethylbenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
sec-Butylbenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
4-Isopropyltoluene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,3-Dichlorobenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,4-Dichlorobenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
n-Butylbenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,2-Dichlorobenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,2-Dibromo-3-Chloropropane	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,2,4-Trichlorobenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 001 B-1
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Hexachlorobutadiene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
Naphthalene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
1,2,3-Trichlorobenzene	EPA 8260B	ND	ug/Kg	9.8	MVP	07/29/2005 / 16:56	
DIBROMOFLUOROMETHANE (SURR)		97.8	%		MVP	07/29/2005 / 16:56	
TOLUENE-DB (SURROGATE)		102	%		MVP	07/29/2005 / 16:56	
4-BROMOFLUOROBENZENE (SURR)		98.8	%		MVP	07/29/2005 / 16:56	
PAH's by EPA 8270 - Soil							
Naphthalene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
2-Methyl Naphthalene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Acenaphthylene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Acenaphthene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Fluorene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Phenanthrene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Anthracene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Fluoranthene	EPA 8270C	974	ug/Kg	560	TLL	08/03/2005 / 14:43	
Pyrene	EPA 8270C	835	ug/Kg	560	TLL	08/03/2005 / 14:43	
Benzo(a)anthracene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Chrysene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Indeno (1,2,3-cd)Pyrene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Benzo(b)fluoranthene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Benzo(k)fluoranthene	EPA 8270C	629	ug/Kg	560	TLL	08/03/2005 / 14:43	
Benzo(a)pyrene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Dibenzo(a,h)Anthracene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
Benzo (g,h,i) perylene	EPA 8270C	ND	ug/Kg	560	TLL	08/03/2005 / 14:43	
NITROBENZENE-D5 (SURR)		73.2	%		TLL	08/03/2005 / 14:43	
2-FLUOROBIPHENYL (SURR)		78.7	%		TLL	08/03/2005 / 14:43	
TERPHENYL-D14 (SURR)		70.4	%		TLL	08/03/2005 / 14:43	
Percent Solids		84.9	%		EBH	08/01/2005 / 7:06	
PCB OIL/SOIL EXTRACTIONS		10.73			MEW	08/01/2005 / 7:14	

Sample: 002 B-2
Collection Date: 07/28/2005 Time: 12:00:00PM
Matrix: SOIL

Received Date: 07/29/2005 Time: 11:00:00AM



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 002 B-2
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Priority Pollutant Metals							
Arsenic	6010B, SW-846	ND	mg/Kg	2.17	JS	08/01/2005 / 1:00	
Antimony	6010B, SW-846	ND	mg/Kg	2.17	JS	08/01/2005 / 1:00	
Beryllium	6010B, SW-846	ND	mg/Kg	0.325	JS	08/01/2005 / 1:00	
Cadmium	6010B, SW-846	ND	mg/Kg	0.325	JS	08/01/2005 / 1:00	
Chromium	6010B, SW-846	8.46	mg/Kg	1.08	JS	08/01/2005 / 1:00	
Copper	6010B, SW-846	15.8	mg/Kg	5.42	JS	08/01/2005 / 1:00	
Lead	6010B, SW-846	10.4	mg/Kg	3.25	JS	08/01/2005 / 1:00	
Mercury	SW-846; 7471	ND	mg/Kg	0.0385	NAP	08/05/2005 / 15:38	
Nickel	6010B, SW-846	61.9	mg/Kg	4.33	JS	08/01/2005 / 1:00	
Selenium	6010B, SW-846	ND	mg/Kg	2.17	JS	08/01/2005 / 1:00	
Silver	6010B, SW-846	ND	mg/Kg	0.325	JS	08/01/2005 / 1:00	
Zinc	6010B, SW-846	19.8	mg/Kg	5.42	JS	08/02/2005 / 1:00	
Thallium	6010B, SW-846	ND	mg/Kg	2.17	JS	08/01/2005 / 1:00	
PCB 8082-SOIL/SOLID							
PCB-1016	EPA 8082	ND	ug/Kg	112	NAC	08/02/2005 / 21:12	
PCB-1221	EPA 8082	ND	ug/Kg	112	NAC	08/02/2005 / 21:12	
PCB-1232	EPA 8082	ND	ug/Kg	112	NAC	08/02/2005 / 21:12	
PCB-1242	EPA 8082	ND	ug/Kg	112	NAC	08/02/2005 / 21:12	
PCB-1248	EPA 8082	ND	ug/Kg	112	NAC	08/02/2005 / 21:12	
PCB-1254	EPA 8082	ND	ug/Kg	112	NAC	08/02/2005 / 21:12	
PCB-1260	EPA 8082	ND	ug/Kg	112	NAC	08/02/2005 / 21:12	
PCB-1262	EPA 8082	ND	ug/Kg	112	NAC	08/02/2005 / 21:12	
PCB-1268	EPA 8082	ND	ug/Kg	112	NAC	08/02/2005 / 21:12	
TCMX (SURROGATE)		59.5	%		NAC	08/02/2005 / 21:12	
DCB (SURROGATE)		64.9	%		NAC	08/02/2005 / 21:12	
Volatile Organics							
Dichlorodifluoromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Vinyl Chloride	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Chloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Bromomethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Chloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Trichlorofluoromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Acrolein	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 17:29	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 002 B-2
(Continued)

<u>Parameter</u>	<u>Method</u>	<u>Results</u>	<u>Units</u>	<u>PQL</u>	<u>Tech</u>	<u>Analysis Date/Time</u>	<u>Qual</u>
Acetone	EPA 8260B	84.5	ug/Kg	51	MVP	07/29/2005 / 17:29	B
1,1-Dichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Iodomethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Carbon Disulfide	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 17:29	
Methylene Chloride	EPA 8260B	33.9	ug/Kg	10	MVP	07/29/2005 / 17:29	
Acrylonitrile	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 17:29	
Methyl-Tert-Butyl-Ether	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
trans-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,1-Dichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
2-Butanone-(MEK)	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 17:29	
Vinyl Acetate	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 17:29	
2,2-Dichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
cis-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Chloroform	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Bromochloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,1,1-Trichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,1-Dichloropropene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Carbon Tetrachloride	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Benzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,2-Dichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Trichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,2-Dichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
4-Methyl-2-Pentanone (MIBK)	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 17:29	
cis-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
2-Chloroethyl vinyl ether	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 17:29	
Toluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
trans-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Bromodichloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,1,2-Trichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,2-Dibromoethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
2-Hexanone	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 17:29	
1,3-Dichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Tetrachloroethylene	EPA 8260B	73.2	ug/Kg	10	MVP	07/29/2005 / 17:29	
Dibromochloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	

Certifications:

MA: MA069

NY:10982

CT: PH0119

RI:A45

NJ: 59744

Page: 6 of 23

ND = Not Detected PQL= Practical Quantitation Limit



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 002 B-2
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Chlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Ethylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
M & P XYLENE	EPA 8260B	ND	ug/Kg	20	MVP	07/29/2005 / 17:29	
O-XYLENE	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Styrene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Bromoform	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Isopropylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,2,3-Trichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
n-Propylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Bromobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
2-Chlorotoluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,3,5-Trimethylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
4-Chlorotoluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
tert-Butylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,2,4-Trimethylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
sec-Butylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
4-Isopropyltoluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,3-Dichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,4-Dichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
n-Butylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,2-Dichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,2-Dibromo-3-Chloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,2,4-Trichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Hexachlorobutadiene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
Naphthalene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
1,2,3-Trichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 17:29	
DIBROMOFLUOROMETHANE (SURR)		125	%		MVP	07/29/2005 / 17:29	M
TOLUENE-D8 (SURROGATE)		85.2	%		MVP	07/29/2005 / 17:29	
4-BROMOFLUOROBENZENE (SURR)		90.6	%		MVP	07/29/2005 / 17:29	
PAH's by EPA 8270 - Soil							
Naphthalene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
2-Methyl Naphthalene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 002 B-2
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Acenaphthylene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Acenaphthene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Fluorene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Phenanthrene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Anthracene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Fluoranthene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Pyrene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Benzo(a)anthracene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Chrysene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Indeno (1,2,3-cd)Pyrene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Benzo(b)fluoranthene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Benzo(k)fluoranthene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Benzo(a)pyrene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Dibenzo(a,h)Anthracene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	
Benzo (g,h,i) perylene	EPA 8270C	ND	ug/Kg	5400	TLL	08/03/2005 / 15:18	G
NITROBENZENE-D5 (SURR)			%		TLL	08/03/2005 / 15:18	G
2-FLUOROBIPHENYL (SURR)			%		TLL	08/03/2005 / 15:18	G
TERPHENYL-D14 (SURR)			%		TLL	08/03/2005 / 15:18	G
Percent Solids		87.1	%		EBH	08/01/2005 / 7:06	
PCB OIL/SOIL EXTRACTIONS		10.28			MEW	08/01/2005 / 7:14	

Sample: 003 B-3
Collection Date: 07/28/2005 Time: 12:30:00PM
Matrix: SOIL

Received Date: 07/29/2005 Time: 11:00:00AM

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Priority Pollutant Metals							
Arsenic	6010B, SW-846	3.52	mg/Kg	2.14	JS	08/01/2005 / 1:00	
Antimony	6010B, SW-846	ND	mg/Kg	2.14	JS	08/01/2005 / 1:00	
Beryllium	6010B, SW-846	ND	mg/Kg	0.321	JS	08/01/2005 / 1:00	
Cadmium	6010B, SW-846	0.414	mg/Kg	0.321	JS	08/01/2005 / 1:00	
Chromium	6010B, SW-846	11.7	mg/Kg	1.07	JS	08/01/2005 / 1:00	
Copper	6010B, SW-846	23.2	mg/Kg	5.35	JS	08/01/2005 / 1:00	
Lead	6010B, SW-846	1920	mg/Kg	3.21	JS	08/01/2005 / 1:00	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 003 B-3
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Mercury	SW-846; 7471	0.181	mg/Kg	0.0369	NAP	08/05/2005 / 15:38	
Nickel	6010B, SW-846	9.68	mg/Kg	4.28	JS	08/01/2005 / 1:00	
Selenium	6010B, SW-846	ND	mg/Kg	2.14	JS	08/01/2005 / 1:00	
Silver	6010B, SW-846	ND	mg/Kg	0.321	JS	08/01/2005 / 1:00	
Zinc	6010B, SW-846	862	mg/Kg	10.7	JS	08/02/2005 / 16:11	
Thallium	6010B, SW-846	ND	mg/Kg	2.14	JS	08/01/2005 / 1:00	
PCB 8082-SOIL/SOLID							
PCB-1016	EPA 8082	ND	ug/Kg	108	NAC	08/02/2005 / 21:29	
PCB-1221	EPA 8082	ND	ug/Kg	108	NAC	08/02/2005 / 21:29	
PCB-1232	EPA 8082	ND	ug/Kg	108	NAC	08/02/2005 / 21:29	
PCB-1242	EPA 8082	ND	ug/Kg	108	NAC	08/02/2005 / 21:29	
PCB-1248	EPA 8082	ND	ug/Kg	108	NAC	08/02/2005 / 21:29	
PCB-1254	EPA 8082	ND	ug/Kg	108	NAC	08/02/2005 / 21:29	
PCB-1260	EPA 8082	ND	ug/Kg	108	NAC	08/02/2005 / 21:29	
PCB-1262	EPA 8082	ND	ug/Kg	108	NAC	08/02/2005 / 21:29	
PCB-1268	EPA 8082	ND	ug/Kg	108	NAC	08/02/2005 / 21:29	
TCMX (SURROGATE)		97.6	%		NAC	08/02/2005 / 21:29	
DCB (SURROGATE)		120	%		NAC	08/02/2005 / 21:29	
Volatile Organics							
Dichlorodifluoromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Vinyl Chloride	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Chloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Bromomethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Chloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Trichlorofluoromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Acrolein	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 18:01	
Acetone	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 18:01	
1,1-Dichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Iodomethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Carbon Disulfide	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 18:01	
Methylene Chloride	EPA 8260B	26.3	ug/Kg	10	MVP	07/29/2005 / 18:01	
Acrylonitrile	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 18:01	
Methyl-Tert-Butyl-Ether	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
trans-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	

Certifications:

MA: MA069

NY:10982

CT: PH0119

Ri:A45

NJ: 59744

Page: 9 of 23

ND = Not Detected

PQL= Practical Quantitation Limit



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 003 B-3
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
1,1-Dichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
2-Butanone-(MEK)	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 18:01	
Vinyl Acetate	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 18:01	
2,2-Dichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
cis-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Chloroform	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Bromochloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,1,1-Trichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,1-Dichloropropene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Carbon Tetrachloride	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Benzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,2-Dichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Trichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,2-Dichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
4-Methyl-2-Pentanone (MIBK)	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 18:01	
cis-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
2-Chloroethyl vinyl ether	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 18:01	
Toluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
trans-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Bromodichloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,1,2-Trichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,2-Dibromoethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
2-Hexanone	EPA 8260B	ND	ug/Kg	51	MVP	07/29/2005 / 18:01	
1,3-Dichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Tetrachloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Dibromochloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Chlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Ethylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
M & P XYLENE	EPA 8260B	ND	ug/Kg	20	MVP	07/29/2005 / 18:01	
O-XYLENE	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Styrene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Bromoform	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Isopropylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 003 B-3
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,2,3-Trichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
n-Propylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Bromobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
2-Chlorotoluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,3,5-Trimethylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
4-Chlorotoluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
tert-Butylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,2,4-Trimethylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
sec-Butylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
4-Isopropyltoluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,3-Dichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,4-Dichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
n-Butylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,2-Dichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,2-Dibromo-3-Chloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,2,4-Trichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Hexachlorobutadiene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
Naphthalene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
1,2,3-Trichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:01	
DIBROMOFLUOROMETHANE (SURR)		102	%		MVP	07/29/2005 / 18:01	
TOLUENE-D8 (SURROGATE)		97.8	%		MVP	07/29/2005 / 18:01	
4-BROMOFLUOROBENZENE (SURR)		95.7	%		MVP	07/29/2005 / 18:01	
PAH's by EPA 8270 - Soil							
Naphthalene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
2-Methyl Naphthalene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Acenaphthylene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Acenaphthene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Fluorene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Phenanthrene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Anthracene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Fluoranthene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Pyrene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Benzo(a)anthracene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 003 B-3
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Chrysene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Indeno (1,2,3-cd)Pyrene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Benzo(b)fluoranthene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Benzo(k)fluoranthene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Benzo(a)pyrene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Dibenzo(a,h)Anthracene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
Benzo (g,h,i) perylene	EPA 8270C	ND	ug/Kg	520	TLL	08/03/2005 / 15:54	
NITROBENZENE-D5 (SURR)		79.1	%		TLL	08/03/2005 / 15:54	
2-FLUOROBIPHENYL (SURR)		98.3	%		TLL	08/03/2005 / 15:54	
TERPHENYL-D14 (SURR)		106	%		TLL	08/03/2005 / 15:54	
Percent Solids		89.8	%		EBH	08/01/2005 / 7:06	
PCB OIL/SOIL EXTRACTIONS		10.32			MEW	08/01/2005 / 7:14	

Sample: 004 B-4
Collection Date: 07/28/2005 Time: 1:00:00PM
Matrix: SOIL

Received Date: 07/29/2005 Time: 11:00:00AM

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Priority Pollutant Metals							
Arsenic	6010B, SW-846	6.24	mg/Kg	2.23	JS	08/01/2005 / 1:00	
Antimony	6010B, SW-846	ND	mg/Kg	4.46	JS	08/02/2005 / 16:11	
Beryllium	6010B, SW-846	ND	mg/Kg	0.335	JS	08/01/2005 / 1:00	
Cadmium	6010B, SW-846	0.897	mg/Kg	0.335	JS	08/01/2005 / 1:00	
Chromium	6010B, SW-846	13.6	mg/Kg	1.12	JS	08/01/2005 / 1:00	
Copper	6010B, SW-846	17.8	mg/Kg	5.58	JS	08/01/2005 / 1:00	
Lead	6010B, SW-846	1460	mg/Kg	3.35	JS	08/01/2005 / 1:00	
Mercury	SW-846; 7471	0.389	mg/Kg	0.0380	NAP	08/05/2005 / 15:38	
Nickel	6010B, SW-846	12.5	mg/Kg	4.46	JS	08/01/2005 / 1:00	
Selenium	6010B, SW-846	ND	mg/Kg	4.46	JS	08/02/2005 / 16:11	
Silver	6010B, SW-846	ND	mg/Kg	0.335	JS	08/01/2005 / 1:00	
Zinc	6010B, SW-846	942	mg/Kg	11.2	JS	08/02/2005 / 16:11	
Thallium	6010B, SW-846	ND	mg/Kg	2.23	JS	08/01/2005 / 1:00	
PCB 8082-SOIL/SOLID							
PCB-1016	EPA 8082	ND	ug/Kg	111	NAC	08/02/2005 / 21:45	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 004 B-4
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
PCB-1221	EPA 8082	ND	ug/Kg	111	NAC	08/02/2005 / 21:45	
PCB-1232	EPA 8082	ND	ug/Kg	111	NAC	08/02/2005 / 21:45	
PCB-1242	EPA 8082	ND	ug/Kg	111	NAC	08/02/2005 / 21:45	
PCB-1248	EPA 8082	ND	ug/Kg	111	NAC	08/02/2005 / 21:45	
PCB-1254	EPA 8082	ND	ug/Kg	111	NAC	08/02/2005 / 21:45	
PCB-1260	EPA 8082	ND	ug/Kg	111	NAC	08/02/2005 / 21:45	
PCB-1262	EPA 8082	ND	ug/Kg	111	NAC	08/02/2005 / 21:45	
PCB-1268	EPA 8082	ND	ug/Kg	111	NAC	08/02/2005 / 21:45	
TCMX (SURROGATE)		111	%		NAC	08/02/2005 / 21:45	
DCB (SURROGATE)		90.8	%		NAC	08/02/2005 / 21:45	
Volatile Organics							
Dichlorodifluoromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Vinyl Chloride	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Chloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Bromomethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Chloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Trichlorofluoromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Acrolein	EPA 8260B	ND	ug/Kg	50	MVP	07/29/2005 / 18:34	
Acetone	EPA 8260B	79.9	ug/Kg	50	MVP	07/29/2005 / 18:34	B
1,1-Dichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Iodomethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Carbon Disulfide	EPA 8260B	ND	ug/Kg	50	MVP	07/29/2005 / 18:34	
Methylene Chloride	EPA 8260B	32.8	ug/Kg	10	MVP	07/29/2005 / 18:34	
Acrylonitrile	EPA 8260B	ND	ug/Kg	50	MVP	07/29/2005 / 18:34	
Methyl-Tert-Butyl-Ether	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
trans-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,1-Dichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
2-Butanone-(MEK)	EPA 8260B	ND	ug/Kg	50	MVP	07/29/2005 / 18:34	
Vinyl Acetate	EPA 8260B	ND	ug/Kg	50	MVP	07/29/2005 / 18:34	
2,2-Dichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
cis-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Chloroform	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Bromochloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,1,1-Trichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	

Certifications:

MA: MA069 NY:10982

CT: PH0119

RI:A45

NJ: 59744

ND = Not Detected

PQL= Practical Quantitation Limit



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 004 B-4
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
1,1-Dichloropropene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Carbon Tetrachloride	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Benzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,2-Dichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Trichloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,2-Dichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
4-Methyl-2-Pentanone (MIBK)	EPA 8260B	ND	ug/Kg	50	MVP	07/29/2005 / 18:34	
cis-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
2-Chloroethyl vinyl ether	EPA 8260B	ND	ug/Kg	50	MVP	07/29/2005 / 18:34	
Toluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
trans-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Bromodichloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,1,2-Trichloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,2-Dibromoethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
2-Hexanone	EPA 8260B	ND	ug/Kg	50	MVP	07/29/2005 / 18:34	
1,3-Dichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Tetrachloroethylene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Dibromochloromethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Chlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Ethylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
M & P XYLENE	EPA 8260B	ND	ug/Kg	20	MVP	07/29/2005 / 18:34	
O-XYLENE	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Styrene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Bromoform	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Isopropylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,2,3-Trichloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
n-Propylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Bromobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
2-Chlorotoluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,3,5-Trimethylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
4-Chlorotoluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
tert-Butylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 004 B-4
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
1,2,4-Trimethylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
sec-Butylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
4-Isopropyltoluene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,3-Dichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,4-Dichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
n-Butylbenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,2-Dichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,2-Dibromo-3-Chloropropane	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,2,4-Trichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Hexachlorobutadiene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
Naphthalene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
1,2,3-Trichlorobenzene	EPA 8260B	ND	ug/Kg	10	MVP	07/29/2005 / 18:34	
DIBROMOFLUOROMETHANE (SURR)		99.8	%		MVP	07/29/2005 / 18:34	
TOLUENE-D8 (SURROGATE)		96.9	%		MVP	07/29/2005 / 18:34	
4-BROMOFLUOROBENZENE (SURR)		89.5	%		MVP	07/29/2005 / 18:34	
PAH's by EPA 8270 - Soil							
Naphthalene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
2-Methyl Naphthalene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
Acenaphthylene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
Acenaphthene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
Fluorene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
Phenanthrene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
Anthracene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
Fluoranthene	EPA 8270C	1390	ug/Kg	550	TLL	08/03/2005 / 16:29	
Pyrene	EPA 8270C	1690	ug/Kg	550	TLL	08/03/2005 / 16:29	
Benzo(a)anthracene	EPA 8270C	863	ug/Kg	550	TLL	08/03/2005 / 16:29	
Chrysene	EPA 8270C	839	ug/Kg	550	TLL	08/03/2005 / 16:29	
Indeno (1,2,3-cd)Pyrene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
Benzo(b)fluoranthene	EPA 8270C	809	ug/Kg	550	TLL	08/03/2005 / 16:29	
Benzo(k)fluoranthene	EPA 8270C	863	ug/Kg	550	TLL	08/03/2005 / 16:29	
Benzo(a)pyrene	EPA 8270C	826	ug/Kg	550	TLL	08/03/2005 / 16:29	
Dibenzo(a,h)Anthracene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
Benzo (g,h,i) perylene	EPA 8270C	ND	ug/Kg	550	TLL	08/03/2005 / 16:29	
NITROBENZENE-D5 (SURR)		76.8	%		TLL	08/03/2005 / 16:29	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 004 B-4
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
2-FLUOROBIPHENYL (SURR)		91.8	%		TLL	08/03/2005 / 16:29	
TERPHENYL-D14 (SURR)		87.6	%		TLL	08/03/2005 / 16:29	
Percent Solids		86.2	%		EBH	08/01/2005 / 7:06	
PCB OIL/SOIL EXTRACTIONS		10.43			MEW	08/01/2005 / 7:14	

Sample: 005 B-5
Collection Date: 07/28/2005 Time: 1:30:00PM
Matrix: SOIL

Received Date: 07/29/2005 Time: 11:00:00AM

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Priority Pollutant Metals							
Arsenic	6010B, SW-846	ND	mg/Kg	2.25	JS	08/01/2005 / 1:00	
Antimony	6010B, SW-846	ND	mg/Kg	2.25	JS	08/01/2005 / 1:00	
Beryllium	6010B, SW-846	ND	mg/Kg	0.337	JS	08/01/2005 / 1:00	
Cadmium	6010B, SW-846	ND	mg/Kg	0.337	JS	08/01/2005 / 1:00	
Chromium	6010B, SW-846	11.4	mg/Kg	1.12	JS	08/01/2005 / 1:00	
Copper	6010B, SW-846	12.9	mg/Kg	5.62	JS	08/01/2005 / 1:00	
Lead	6010B, SW-846	12.1	mg/Kg	3.37	JS	08/01/2005 / 1:00	
Mercury	SW-846; 7471	ND	mg/Kg	0.0376	NAP	08/05/2005 / 16:32	
Nickel	6010B, SW-846	53.8	mg/Kg	4.50	JS	08/01/2005 / 1:00	
Selenium	6010B, SW-846	ND	mg/Kg	2.25	JS	08/01/2005 / 1:00	
Silver	6010B, SW-846	ND	mg/Kg	0.337	JS	08/01/2005 / 1:00	
Zinc	6010B, SW-846	31.2	mg/Kg	5.62	JS	08/02/2005 / 1:00	
Thallium	6010B, SW-846	ND	mg/Kg	2.25	JS	08/01/2005 / 1:00	
PCB 8082-SOIL/SOLID							
PCB-1016	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 22:02	
PCB-1221	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 22:02	
PCB-1232	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 22:02	
PCB-1242	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 22:02	
PCB-1248	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 22:02	
PCB-1254	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 22:02	
PCB-1260	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 22:02	
PCB-1262	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 22:02	
PCB-1268	EPA 8082	ND	ug/Kg	110	NAC	08/02/2005 / 22:02	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 005 B-5
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
TCMX (SURROGATE)		61.9	%		NAC	08/02/2005 / 22:02	
DCB (SURROGATE)		64.2	%		NAC	08/02/2005 / 22:02	
Volatile Organics							
Dichlorodifluoromethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Vinyl Chloride	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Chloromethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Bromomethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Chloroethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Trichlorofluoromethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Acrolein	EPA 8260B	ND	ug/Kg	48	MVP	07/29/2005 / 19:07	
Acetone	EPA 8260B	ND	ug/Kg	48	MVP	07/29/2005 / 19:07	
1,1-Dichloroethylene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Iodomethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Carbon Disulfide	EPA 8260B	ND	ug/Kg	48	MVP	07/29/2005 / 19:07	
Methylene Chloride	EPA 8260B	43.5	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Acrylonitrile	EPA 8260B	ND	ug/Kg	48	MVP	07/29/2005 / 19:07	
Methyl-Tert-Butyl-Ether	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
trans-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,1-Dichloroethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
2-Butanone-(MEK)	EPA 8260B	ND	ug/Kg	48	MVP	07/29/2005 / 19:07	
Vinyl Acetate	EPA 8260B	ND	ug/Kg	48	MVP	07/29/2005 / 19:07	
2,2-Dichloropropane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
cis-1,2-Dichloroethylene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Chloroform	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Bromochloromethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,1,1-Trichloroethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,1-Dichloropropene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Carbon Tetrachloride	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Benzene	EPA 8260B	29.7	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,2-Dichloroethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Trichloroethylene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,2-Dichloropropane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
4-Methyl-2-Pentanone (MIBK)	EPA 8260B	ND	ug/Kg	48	MVP	07/29/2005 / 19:07	
cis-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 005 B-5
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
2-Chloroethyl vinyl ether	EPA 8260B	ND	ug/Kg	48	MVP	07/29/2005 / 19:07	
Toluene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
trans-1,3-Dichloropropene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Bromodichloromethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,1,2-Trichloroethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,2-Dibromoethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
2-Hexanone	EPA 8260B	ND	ug/Kg	48	MVP	07/29/2005 / 19:07	
1,3-Dichloropropane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Tetrachloroethylene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Dibromochloromethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Chlorobenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Ethylbenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
M & P XYLENE	EPA 8260B	ND	ug/Kg	19	MVP	07/29/2005 / 19:07	
O-XYLENE	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Styrene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Bromoform	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Isopropylbenzene	EPA 8260B	71.4	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,2,3-Trichloropropane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
n-Propylbenzene	EPA 8260B	100	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Bromobenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
2-Chlorotoluene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,3,5-Trimethylbenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
4-Chlorotoluene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
tert-Butylbenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,2,4-Trimethylbenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
sec-Butylbenzene	EPA 8260B	40.7	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
4-Isopropyltoluene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,3-Dichlorobenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,4-Dichlorobenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
n-Butylbenzene	EPA 8260B	70.4	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,2-Dichlorobenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,2-Dibromo-3-Chloropropane	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 005 B-5
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
1,2,4-Trichlorobenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Hexachlorobutadiene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
Naphthalene	EPA 8260B	44.3	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
1,2,3-Trichlorobenzene	EPA 8260B	ND	ug/Kg	9.6	MVP	07/29/2005 / 19:07	
DIBROMOFLUOROMETHANE (SURR)		125	%		MVP	07/29/2005 / 19:07	M
TOLUENE-D8 (SURROGATE)		74.1	%		MVP	07/29/2005 / 19:07	M
4-BROMOFLUOROBENZENE (SURR)		97.1	%		MVP	07/29/2005 / 19:07	
PAH's by EPA 8270 - Soil							
Naphthalene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
2-Methyl Naphthalene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Acenaphthylene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Acenaphthene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Fluorene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Phenanthrene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Anthracene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Fluoranthene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Pyrene	EPA 8270C	9370	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Benzo(a)anthracene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Chrysene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Indeno (1,2,3-cd)Pyrene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Benzo(b)fluoranthene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Benzo(k)fluoranthene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Benzo(a)pyrene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Dibenzo(a,h)Anthracene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
Benzo (g,h,i) perylene	EPA 8270C	ND	ug/Kg	5600	TLL	08/03/2005 / 17:05	
NITROBENZENE-D5 (SURR)			%		TLL	08/03/2005 / 17:05	G
2-FLUOROBIPHENYL (SURR)			%		TLL	08/03/2005 / 17:05	G
TERPHENYL-D14 (SURR)			%		TLL	08/03/2005 / 17:05	G
Percent Solids		88.9	%		EBH	08/01/2005 / 7:06	
PCB OIL/SOIL EXTRACTIONS		10.20			MEW	08/01/2005 / 7:14	

Sample: 006 MW-1



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 006 MW-1
(Continued)

Received Date: 07/29/2005 Time: 11:00:00AM

Collection Date: 07/28/2005 Time: 10:00:00AM
Matrix: WATER

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Priority Pollutant Metals							
Arsenic	200.7, EPA 1987	0.0367	mg/L	0.0100	JS	08/02/2005 / 15:42	
Antimony	200.7, EPA 1987	ND	mg/L	0.0100	JS	08/02/2005 / 15:42	
Beryllium	200.7, EPA 1987	0.00745	mg/L	0.00250	JS	08/02/2005 / 15:42	
Cadmium	200.7, EPA 1987	ND	mg/L	0.00110	JS	08/02/2005 / 15:42	
Chromium	200.7, EPA 1987	0.349	mg/L	0.00600	JS	08/02/2005 / 15:42	
Copper	200.7, EPA 1987	0.373	mg/L	0.00500	JS	08/02/2005 / 15:42	
Lead	200.7, EPA 1987	0.124	mg/L	0.0100	JS	08/02/2005 / 15:42	
Mercury	245.2, EPA 1983	0.000315	mg/L	0.000200	JS	08/01/2005 / 10:12	
Nickel	200.7, EPA 1987	0.790	mg/L	0.0400	JS	08/02/2005 / 15:42	
Silver	200.7, EPA 1987	ND	mg/L	0.00500	JS	08/02/2005 / 15:42	
Selenium	200.7, EPA 1987	ND	mg/L	0.0200	JS	08/02/2005 / 15:42	
Thallium	200.7, EPA 1987	ND	mg/L	0.0200	JS	08/02/2005 / 15:42	
Zinc	200.7, EPA 1987	0.546	mg/L	0.0500	JS	08/02/2005 / 15:42	
Volatile Organics 8260							
Dichlorodifluoromethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Vinyl Chloride	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Chloromethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Bromomethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Chloroethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Trichlorofluoromethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Acrolein	EPA 8260B	ND	ug/L	25	MVP	07/29/2005 / 13:18	
Acetone	EPA 8260B	ND	ug/L	25	MVP	07/29/2005 / 13:18	
1,1-Dichloroethylene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Iodomethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Carbon Disulfide	EPA 8260B	ND	ug/L	25	MVP	07/29/2005 / 13:18	
Methylene Chloride	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Acrylonitrile	EPA 8260B	ND	ug/L	25	MVP	07/29/2005 / 13:18	
Methyl-Tert-Butyl-Ether	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
trans-1,2-Dichloroethylene	EPA 8260B	6.51	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,1-Dichloroethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Vinyl Acetate	EPA 8260B	ND	ug/L	25	MVP	07/29/2005 / 13:18	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 006 MW-1
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
2-Butanone-(MEK)	EPA 8260B	ND	ug/L	25	MVP	07/29/2005 / 13:18	
2,2-Dichloropropane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
cis-1,2-Dichloroethylene	EPA 8260B	14.9	ug/L	5.0	MVP	07/29/2005 / 13:18	
Chloroform	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Bromochloromethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,1,1-Trichloroethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,1-Dichloropropene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Carbon Tetrachloride	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Benzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,2-Dichloroethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Trichloroethylene	EPA 8260B	18.7	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,2-Dichloropropane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
4-Methyl-2-Pentanone (MIBK)	EPA 8260B	ND	ug/L	25	MVP	07/29/2005 / 13:18	
2-Chloroethyl vinyl ether	EPA 8260B	ND	ug/L	25	MVP	07/29/2005 / 13:18	
cis-1,3-Dichloropropene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Toluene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
trans-1,3-Dichloropropene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Bromodichloromethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,1,2-Trichloroethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,2-Dibromoethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
2-Hexanone	EPA 8260B	ND	ug/L	25	MVP	07/29/2005 / 13:18	
1,3-Dichloropropane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Tetrachloroethylene	EPA 8260B	21.2	ug/L	5.0	MVP	07/29/2005 / 13:18	
Dibromochloromethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Chlorobenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,1,1,2-Tetrachloroethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Ethylbenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
M & P-XYLENE	EPA 8260B	ND	ug/L	10	MVP	07/29/2005 / 13:18	
O-XYLENE	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Styrene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Bromoform	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Isopropylbenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,1,2,2-Tetrachloroethane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,2,3-Trichloropropane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	

Certifications:

MA: MA069 NY:10982

CT: PH0119

RI:A45

NJ: 59744

Page: 21 of 23

ND = Not Detected PQL= Practical Quantitation Limit



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 006 MW-1
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
n-Propylbenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Bromobenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
2-Chlorotoluene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,3,5-Trimethylbenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
4-Chlorotoluene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
tert-Butylbenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,2,4-Trimethylbenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
sec-Butylbenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
4-Isopropyltoluene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,3-Dichlorobenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,4-Dichlorobenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
n-Butylbenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,2-Dichlorobenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,2-Dibromo-3-Chloropropane	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,2,4-Trichlorobenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Hexachlorobutadiene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
Naphthalene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
1,2,3-Trichlorobenzene	EPA 8260B	ND	ug/L	5.0	MVP	07/29/2005 / 13:18	
DIBROMOFLUOROMETHANE (SURR)		84.9	%		MVP	07/29/2005 / 13:18	
TOLUENE-D8 (SURROGATE)		96.6	%		MVP	07/29/2005 / 13:18	
4-BROMOFLUOROBENZENE (SURR)		79.9	%		MVP	07/29/2005 / 13:18	
PAH's by EPA 8270 - Water							
Naphthalene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
2-Methyl Naphthalene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Acenaphthylene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Acenaphthene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Fluorene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Phenanthrene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Anthracene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Fluoranthene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Pyrene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Benzo(a)anthracene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Chrysene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Indeno (1,2,3-cd)Pyrene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	



Customer: ATC Associates

Workorder No. 0507-00364

Sample: 006 MW-1
(Continued)

Parameter	Method	Results	Units	PQL	Tech	Analysis Date/Time	Qual
Benzo(b)fluoranthene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Benzo(k)fluoranthene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Benzo(a)pyrene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Dibenzo(a,h)Anthracene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
Benzo (g,h,i) perylene	EPA 8270C	ND	ug/L	5.2	TLL	08/04/2005 / 13:49	
NITROBENZENE-D5 (SURR)		78.4	%		TLL	08/04/2005 / 13:49	
2-FLUOROBIPHENYL (SURR)		101	%		TLL	08/04/2005 / 13:49	
TERPHENYL-D14 (SURR)		88.4	%		TLL	08/04/2005 / 13:49	

PROJECT NAME RECEIVED AFTER CHAIN OF CUSTODY FROM CHARLES TALLINGER-SOH

B - The analyte of interest was found in the method blanks.

M - Surrogate recoveries are outside the quality control limits possibly due to matrix interference, verified by reanalysis.

G - Surrogate recoveries are not reported due to sample dilution.

To the best of my knowledge this report is true and accurate.

Authorized By:

Vinora Nicholls, Technical Director

Date:

NOTE: All solid results are reported on a dry weight basis unless otherwise noted.

Certifications:

MA: MA069

NY: 10982

CT: PH0119

RI: A45

NJ: 59744

ND = Not Detected

PQL = Practical Quantitation Limit

195-1250



Eastern Connection
(800) 877-4745
www.ecdailivers.com

Pickup Date: 7/26/05 2:50 PM
Pickup Time: 8:50 AM
Pickup Agent: 8528
Account #: 63218 7
Service Level: 1
Route: JLS
BOL # 44385893

2 FROM (Your Name)
Company: GERRY SCI
Address: 30TH STREET
City: NEW YORK
State: NY
Zip Code: 10014
Phone: (800) 705-5227
Room/Floor:
4 TO (Recipient's Name)
Company: GERRY SCI
Address: 30TH STREET
City: NEW YORK
State: NY
Zip Code: 10014
Phone: (888) 724-5222
Room/Floor:

3 Shipper Billing Reference

5 EC Guaranteed Express Parcel Services
 Express Priority Overnight - Next business morning. Consult service guide for specific delivery times.
 Next Business Day (By 5pm)
 Night Owl (Late Night Pickup)
 Same Day (Nationwide Next Flight Out/Door-to-Door Direct Drive)
 Saturday Service (Not available for all Locations)
 Sunday/Holiday Service
 Early AM by AM (Must call for prior arrangements)

6 Release Signature
7 Declared Value (\$10,000 max.)
Routing Code: BEA

8 Pieces: 2
Weight: 85 lbs.
Subject to weight and dimensional calculations

44385893

REORDER FROM CSM GROUP, INC. 508-543-4010

PACKAGE COPY

CLIENT: <u>ATC</u>	WORKORDER: <u>0507-364</u>
CLIENTS JOB:	RECEIVED BY: <u>Sott</u>
RECEIVED DATE: <u>7/29/15</u>	SHIPPING METHOD: <u>EC</u>
TEMP UPON RECEIPT: <u>How Sott 5⁰²</u>	

"No" responses must be explained in the comment section below.

Checklist	YES	NO	NA
Were custody seals on shipping container(s) intact? Check "NA" if no seals, or if containers were hand delivered.			<u>X</u>
Were Chain of Custody Forms included with the samples?	<u>X</u>		
Were Chain of Custody Forms properly filled out (ink, signed, etc.)	<u>X</u>		
Were all containers received in good condition (Check for breakage/leaks)?	<u>X</u>		
Were all containers labeled with required information (Sample Id, date, signed, analysis, preservation)?	<u>X</u>		
Were the correct containers used for the tests indicated?	<u>X</u>		
Were proper preservation techniques indicated?	<u>X</u>		
Were samples received within holding times? If "NO" nonconformance form is required.	<u>X</u>		
Were all VOA bottles checked for the presence of air bubbles? If bubbles were found please note in the comment section.	<u>X</u>		
Were samples in direct contact with wet ice? If "NO" check one: <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> No Ice			<u>X</u>
Is sample temperature recorded? If "NO" check one: <input type="checkbox"/> Unable to record <input type="checkbox"/> Temp taken near samples	<u>X</u>		
Were pHs of samples checked and recorded on the COC forms?	<u>X</u>		
Did the laboratory accept samples?	<u>X</u>		
Will samples be subcontracted? If "yes" list subcontractor and tests in specified sections below.			<u>X</u>
Subcontractor:	Date Sent Out:		
Analyses Sent:			

Login Technician: <u>Sott</u>	Login Review: <u>(MP)</u>
Comments:	

April 23, 2014

Mr. Robert Palumbo
G4 Capital Partners
14 Skillman Street
Roslyn, NY 11576

**Re: Environmental Document Review
111 Leroy Street Property
111 Leroy Street, New York, NY 10014
EBI Project No. 1114278**

Dear Mr. Palumbo:

EBI Consulting (EBI) is pleased to present the findings of this Environmental Document Review, conducted on behalf of G4 Capital Partners. This Document Review was conducted in order to address environmental due diligence issues, as presented in the prior report and/or as identified by EBI during the Environmental Document Review, and to comment regarding the appropriateness of the conclusions and recommendations as presented in the prior report. The prior report was reviewed against generally accepted industry standards and the American Society for Testing Materials (ASTM) Standard E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

1.0 REVIEW OF PRIOR REPORTS

The prior report subject to this Environmental Document Review is identified as follows:

1. Phase I Environmental Site Assessment, 111 Leroy Street and 621 to 623 Greenwich Street, Manhattan, New York, prepared by Hydro Tech Environmental, Corporation (Hydro Tech) of Hauppauge, New York, dated April 17, 2014 (herein referred to as the Hydro Tech Report).

Phase I Environmental Site Assessment, 111 Leroy Street and 621 to 623 Greenwich Street, Manhattan, New York, prepared by Hydro Tech Environmental, Corporation (Hydro Tech) of Hauppauge, New York, dated April 17, 2014

The Hydro Tech Report was completed in general conformance with ASTM Standard E 1527-13. The scope of the Hydro Tech Report investigation included visual reconnaissance of the Subject Property, interviews with knowledgeable persons associated with the Subject Property, review of available regulatory information contained within federal and state environmental databases and other local environmental records, review of the physical characteristics and history of the Subject Property, and a limited visual survey for the presence of asbestos-containing materials (ACM), lead-based paint (LBP), and mold. The following information was presented in the Hydro Tech Report:

- At the time of the Hydro Tech Report, the Subject Property was improved with two one-story commercial buildings constructed between 1931 and 1947. EBI notes that the Site Plan provided in the appendices indicates the two subject buildings as two stories in height. The square footage of the subject buildings was not provided. The Subject Property contained 17,955 square feet. Although not described in the Hydro Tech report, EBI notes the Subject Property is comprised of one irregular and two rectangular contiguous parcels.

- At the time of inspection, the existing structures were vacant. The larger, irregular parcel consisted of an asphalt-paved parking area with 30 aboveground hydraulic parking lifts and one attendant booth. Hydro Tech indicated that the former occupants of the buildings could not be identified. No industrial or manufacturing operations were observed at the Subject Property at the time of inspection.
- Based upon review of historical resources dating back to 1895 (fire insurance maps, city directories, municipal records, and other property records), Hydro Tech reported that the Subject Property consisted of residential dwellings from 1895 to at least 1921; during this time frame, several of the dwellings along Greenwich Street were also utilized as a cooper, an iron works, and as an “oils” store. The existing improvements were constructed between 1931 and 1947, and the central portion of the Subject Property was utilized as a parking lot by at least 1950. Former occupants of the Subject Property identified during historical review included an auto body shop, welding shop, and motor parts store (identified by EBI to be a motor freight station). EBI notes Hydro Tech identified a 1968 city directory listing for “Material Handling & Mercury Manufacturing Company” at 111 Leroy Street, although additional discussion was not provided. EBI also identified an express depot on the appended 1950 and 1969 fire insurance maps at 121 Leroy Street (current parking lot). In addition, further review of the city directories indicated that the 1968 listings were for Dierckx Hiles Equipment Corporation Material Handling and Mercury Manufacturing Company Industrial Trucks (two companies), in addition to other commercial listings. Hydro Tech considered the historical use of the Subject Property for auto repair, welding, and manufacturing to be a *recognized environmental condition* (REC).

Hydro Tech indicated that as the current improvements were not constructed with basements and the parking lot was at grade level; however, the former dwellings were constructed with basements. Hydro tech indicated that the presence of unknown fill material was considered a REC.

- Hydro Tech did not identify evidence of existing or former underground storage tanks (USTs) or aboveground storage tanks (ASTs) at the Subject Property, with the exception of a vent pipe observed along the southern exterior of the 111 Leroy Street building and a vent pipe and fill port observed in the northern portion of the parking lot along Morton Street. Hydro Tech indicated that no corresponding fill port was identified in the vicinity of the vent pipe at 111 Leroy Street, and that 111 Leroy Street was identified in the environmental database as a registered UST facility (Petroleum Bulk Storage (PBS) Number 2-608656). The UST is reported as an in-service, 1,500-gallon No. 2 fuel oil UST. The date of installation was not provided. This address was also identified in the environmental database as a leaking storage tank (LTANKS) site, with a release reported on April 24, 2003 (Spill ID Number 0300861). The database listing indicated that no release of fuel oil was noted in the soil around the UST after additional investigation, and the release was closed on May 2, 2006. Hydro Tech indicated that this was considered a *controlled REC* (CREC); however, EBI identified no continuing obligations associated with this LTANKS case. Review of the appended environmental database indicated that the New York State Department of Environmental Conservation (NYSDEC) closed the LTANKS case with no further action. Based on the regulatory closure with no documented continuing obligations, EBI considers the closed LTANKS case to be a *historical REC* (HREC).

Hydro Tech indicated that no registered storage tank was identified in association with the vent pipe and fill port identified along the Morton Street side of the Subject Property. Hydro Tech considered the presence of storage tanks to be a REC.

- Hydro Tech indicated no PCB-containing equipment was identified at the Subject Property.

- Hydro Tech indicated the presence of 30 aboveground hydraulic parking lifts, but did not comment as to whether staining or other evidence of a release of hydraulic fluid was observed in the vicinity of the lifts.
- Hydro Tech reported that no hazardous substances and/or petroleum products were identified at the Subject Property.
- Based upon review of the environmental database report, Hydro Tech identified no off-site facilities that were considered likely to have impacted the Subject Property. As indicated above, the Subject Property was identified with a registered UST and with a closed LTANKS case. In addition, the Subject Property was identified as a Spills site (Spill ID Number 0611866). This Spill was reported on January 26, 2007, and was reported to be caused by the electric utility provider, Con Edison, incorrectly installing a line to a tank. The open Spills case was considered by Hydro Tech to be a REC. Further review of the database indicated that a contractor for Con Edison removed an oil fill line during construction of a vault; one quart of oil leaked into the vault excavation when an oil delivery company made a delivery. Reportedly, the oil fill line was repaired. NYSDEC required additional information and testing of the line and associated tank (the 1,500-gallon tank noted above).

Hydro Tech also indicated that the Subject Property was identified in the environmental database as a Little "E" Designation site for Air Quality (E-211, City Environmental Quality Review (SEQR) #07DCP095M). Hydro Tech considered this to be a REC. Further review of the Negative Declaration for this e-Designation indicated that the Subject Property's e-Designation also pertains to hazardous materials and archaeological resources. The air quality restriction requires specific stack set-backs depending on the heating fuel (fuel oil or natural gas) upon redevelopment of the Subject Property. However, the hazardous materials restriction requires the preparation of a soil, groundwater, and soil gas sampling program, which must be submitted to and approved by the Office of Environmental Remediation (OER) and the New York City Department of Environmental Protection (NYCDEP). Remediation may be required pending results of the subsurface investigation. During the subsurface investigation, if the Subject Property is found to contain archaeological artifacts, evacuation of these artifacts prior to additional excavation, grading, or other redevelopment activities at the Subject Property. A copy of the Negative Declaration is appended for reference.

- Hydro Tech conducted a Tier I evaluation of potential Vapor Encroachment Conditions (PVECs) in accordance with ASTM 2600-10. The Tier I evaluation identified no PVECs for the Subject Property.
- Hydro Tech observed two monitoring wells at the Subject Property. One monitoring well was located in the sidewalk along Greenwich Street (western side of the Subject Property); the second well was located in the southeastern portion of the Subject Property in the sidewalk along Leroy Street. Hydro Tech considered these wells to be a REC.
- Pertaining to suspect asbestos-containing materials (ACM), Hydro Tech stated, "No other visual evidence of suspect [ACM] was identified at the Subject Property."
- Hydro Tech observed peeling paint in the stairway leading to the basement of the building. Hydro Tech did not indicate which building; EBI also notes that Hydro Tech previously stated that the buildings did not contain basements. Hydro Tech considered the paint to be "indicative of lead-based paint" based on the age of the building, and considered the presence of suspect lead-based paint (LBP) to be a REC. EBI notes that LBP is outside of the scope of ASTM 1527-13 and as such

would be considered a non-scope condition. Further, although Hydro Tech indicated LBP to be a REC within the text, LBP was not listed as a REC in the Conclusions section.

- No visual evidence of mold was observed.

Based upon the findings of the Phase I Environmental Site Assessment, Hydro Tech identified the following RECs and CRECs associated with the Subject Property; however, no recommendations were offered:

- Hydro Tech indicated that as the current improvements were not constructed with basements and the parking lot was at grade level; however, the former dwellings were constructed with basements. Hydro Tech indicated that the presence of unknown fill material was considered a REC.
- Hydro Tech considered the historical use of the Subject Property for auto repair, welding, and manufacturing to be a REC.
- Hydro Tech considered the e-Designation for the Subject Property to be a REC.
- The Subject Property was identified as a Spills site (Spill ID Number 0611866). This Spill was reported on January 26, 2007, and was reported to be caused by the electric utility provider, Con Edison, incorrectly installing a line to a tank. The open Spills case was considered by Hydro Tech to be a REC.
- Hydro Tech considered the presence of storage tanks at the Subject Property to be a REC.
- Hydro Tech observed two monitoring wells at the Subject Property. One monitoring well was located in the sidewalk along Greenwich Street (western side of the Subject Property); the second well was located in the southeastern portion of the Subject Property in the sidewalk along Leroy Street. Hydro Tech considered these wells to be a REC.
- Although not identified as such in the Conclusions section, Hydro Tech considered the presence of suspect LBP to be a REC.
- Hydro Tech considered the closed LTANKS listing for the Subject Property to be a CREC.

2.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon review of the prior environmental report(s) as referenced above, EBI is in agreement with the conclusions as presented therein, with the following exceptions.

- The Subject Property was identified in the environmental database as an LTANKS site, with a release reported on April 24, 2003 (Spill ID Number 0300861). The database listing indicated that no release of fuel oil was noted in the soil around the UST after additional investigation, and the release was closed on May 2, 2006. Hydro Tech indicated that this was considered a CREC; however, EBI identified no continuing obligations associated with this LTANKS case. Review of the appended environmental database indicated that NYSDEC closed the LTANKS case with no further action. Based on the regulatory closure with no documented continuing obligations, EBI considers the closed LTANKS case to be an HREC.

Further, EBI concurs that the investigation was conducted in general conformance with ASTM Standard E 1527-13. However, EBI offers the following recommendation(s):

- EBI recommends that a geophysical survey, including a ground penetrating radar (GPR) survey and/or magnetometer survey, be conducted in order to determine whether any underground storage tank (UST) systems remain on the northern portion of the Subject Property. EBI additionally recommends that a limited subsurface investigation be conducted, in order to characterize subsurface soil and/or groundwater conditions at this location.

EBI also recommends that the 1,500-gallon UST at Subject Property be properly decommissioned in accordance with applicable state and local requirements, should the UST no longer be needed. EBI additionally recommends that subsurface soil and/or groundwater conditions at this location be properly characterized at the time of decommissioning.

EBI further recommends that a limited subsurface investigation be conducted, in order to characterize subsurface soil and/or groundwater conditions associated with the historical activity conducted on the Subject Property.

Estimated cost: \$3,500 for geophysical survey; \$12,000 to \$15,000 for limited subsurface investigation, pending discussion of scope of work.

- EBI recommends consultation with NYSDEC in order to determine the appropriate response actions and reported that would be required in order to close the open Spills case associated with the Subject Property. Estimated Cost: TBD, pending NYSDEC requirements. EBI notes that the above-recommended subsurface investigation may satisfy a portion of the potential requirements.
- EBI recommends consultation with the NYC OER in order to determine the appropriate response actions and reporting that would be required in order to achieve compliance with the (E) Designation of the Subject Property. Estimated Cost: TBD, pending NYC OER requirements. EBI notes that the above-recommended subsurface investigation may satisfy a portion of the potential requirements.
- EBI recommends that a regulatory file review be conducted at NYSDEC in order to evaluate the owner and purpose of the two observed monitoring wells, as well as to obtain information regarding groundwater sampling data associated with the wells. Estimated cost: \$1,000.
- EBI recommends that suspect ACM be identified and bulk sampled by a licensed asbestos inspector prior to any renovation or demolition activities. Any materials that are determined to be asbestos-containing through bulk sampling should be removed by a licensed abatement contractor prior to renovation or demolition activities that would disturb these materials. Estimated Cost: Action Item.
- EBI recommends that demolition activities that will disturb painted surfaces be conducted in accordance with OSHA and applicable state and local health and safety regulations. Estimated Cost: Action Item.

This report is addressed to G4 Capital Partners and such other persons as may be designated by G4 Capital Partners and their respective successors and assigns.

Reliance on the report and the information contained herein shall mean (i) the report may be relied upon by G4 Capital Partners, in determining whether to make a loan evidenced by a note secured by the Subject Property ("the Mortgage Loan"); (ii) the report may be relied upon by any loan purchaser in determining whether to purchase the Mortgage Loan from G4 Capital Partners, or an interest in the Mortgage Loan or securities backed or secured by the Mortgage Loan, and any rating agency rating securities representing an interest in the Mortgage Loan or backed or secured by the Mortgage Loan; (iii) the report may be referred to in and included, in whole or in part, with materials offering for sale

the Mortgage Loan or an interest in the Mortgage Loan or securities backed or secured by the Mortgage Loan; (iv) the report speaks only as of its date in the absence of a specific written update of the report signed and delivered by EBI Consulting.

There are no intended or unintended third party beneficiaries to this report, except as expressly stated herein.

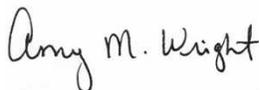
EBI is an independent contractor, not an employee of either the issuer or the borrower, and its compensation was not based on the findings or recommendations made in the report or on the closing of any business transaction.

EBI notes that current conditions on the Subject Property and surrounding properties may differ significantly from those identified in the prior environmental report(s). Please note that a physical inspection of the Subject Property was not conducted by EBI and that EBI does not render any opinion regarding past or present on-site environmental conditions. This Environmental Document Review does not permit G4 Capital Partners to satisfy the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability: that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the Subject Property consistent with good commercial or customary practice" as defined in 42 U.S.C. § 9601(35)(B).

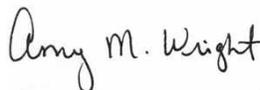
EBI thanks you for the opportunity to provide environmental consulting services to G4 Capital Partners. Should you have any questions or require additional information, please do not hesitate to contact the undersigned at (856) 649-9063.

Sincerely,

EBI CONSULTING



Amy M. Wright
Author/Senior Scientist



Amy M. Wright
Reviewer/Senior Scientist
(856) 649-9063



Josh Simon
Senior Account Executive

Attachments: Phase I Environmental Site Assessment, 111 Leroy Street and 621 to 623 Greenwich Street, Manhattan, New York, prepared by Hydro Tech Environmental, Corporation (Hydro Tech) of Hauppauge, New York, dated April 17, 2014



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PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

111 Leroy Street and 621 to 623 Greenwich Street
Manhattan, NY



Prepared For:

PMG Leroy, LLC
5 East 17th Street
New York, NY

April 17, 2014

Hydro Tech Job No. 140059

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

111 Leroy Street and 621 to 623 Greenwich Street
Manhattan, NY

April 17, 2014

Hydro Tech Environmental, Corp. appreciates the opportunity to work for PMG Leroy, LLC at the property located at 111 Leroy Street and 621 to 623 Greenwich Street, Manhattan, New York.

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

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

Very Truly Yours,
Hydro Tech Environmental, Corp.

X 
Erica Johnston
Environmental Scientist

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

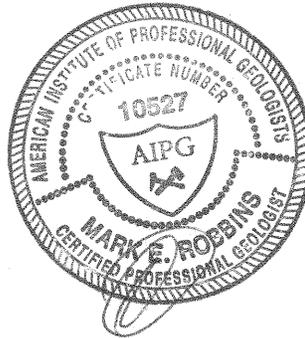


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1.0 EXECUTIVE SUMMARY

Hydro Tech Environmental, Corp. (Hydro Tech) has performed a Phase I Environmental Site Assessment (Phase I ESA) at the Subject Property located at 111 Leroy and 621 to 623 Greenwich Street, Manhattan, New York. The Phase I ESA was performed to meet or surpass the American Standard of Testing Materials Standard for Phase I Environmental Site Assessments E 1527-13. The purpose of the assessment was to characterize the environmental quality of the Subject Property through the identification of Recognized Environmental Conditions. All work was performed under the supervision of a Hydro Tech Project Manager and under the guidance of a Hydro Tech geologist.

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

- The presence of unknown fill material (4.0)
- The historical use of the property for auto repairs, welding and manufacturing (4.0, 5.0)
- The presence of a NYC Little "E" Designation for Air Quality (5.0)
- The presence of an active NYSDEC Spill Case (5.0)
- The presence of underground storage tanks (6.0)
- The presence of monitoring wells (6.0)

The Phase I Environmental Site Assessment has revealed the following Controlled REC at the Subject Property:

- The presence of a closed LTANK at the Subject Property (5.0)

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

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

2.0 INTRODUCTION & SCOPE OF WORK

2.1 Introduction

Hydro Tech Environmental, Corp. (Hydro Tech, the "*Preparer*") has been retained by PMG Leroy, LLC (the "*User*") to perform a Phase I Environmental Site Assessment at the property located at 111 Leroy Street and 621 to 623 Greenwich Street in Manhattan, New York. The User is the "*Prospective Buyer*" of the property. The Phase I was prepared for due diligence purposes towards a purchase transaction of the property. The property will hereafter be referred to as the "*Subject Property*".

The purpose of a Phase I Assessment is to characterize the environmental quality of the Subject Property through the determination of the presence of Recognized Environmental Conditions (RECs). As defined by the American Society of Testing and Materials (ASTM), a REC is, "the presence or likely presence of any hazardous substances or petroleum products 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 of the property" (ASTM E 1527-13, §1.1.1). As defined by the ASTM, a Controlled Recognized Environmental Condition (CREC) is, "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls." (ASTM E 1527-13, §3.2.18). Adjacent and surrounding sites are evaluated as part of a Phase I Assessment with regards to conditions that may indicate high probability of the migration of hazardous substances or petroleum products to a property. As defined by ASTM, migrate/migration is, "the movement of hazardous substances or petroleum products in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface." (ASTM E1527-13, §3.2.56).

To this end, Hydro Tech has collected information through a number of sources including, but not limited to: a property and neighborhood inspection by trained environmental personnel, a review of historical and current information collected from various federal, state, county and municipal agencies and personnel interviews with Site representatives. Recommendations are offered where prudent. Firms subcontracted by Hydro Tech and the User may have collected some information used in this report. Some or all of the Assessment has been performed or supervised by environmental professionals as required by 40 CFR Part 310. The procurement of Title and Judicial Records for Environmental Liens and/or Activity and Use Limitations ("AULs") by HTE is beyond the scope of this practice (ASTM E1527-13) and investigation.

2.2 Scope of Work

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

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

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

2.3 Limitations and Exceptions & Data Gaps

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

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

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

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

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

It should be noted that the USEPA has determined in their final ruling (40 C.F.R. Part 312, Standards and Practices for All Appropriate Inquiries) of November 1, 2005 that "persons conducting all appropriate inquiries may use the procedures included in the ASTM E1527-13 standard to comply with today's final rule." Therefore, while all appropriate inquiry could be considered satisfied as this ESA was prepared in exceedances(s) of the ASTM E1527-13 standard, persons attempting to utilize this ESA while seeking one of CERCLA's LLPs must note that; a) they will not maintain CERCLA liability protections unless they also comply with all of the continuing obligations established under the statute that are beyond the scope of this practice (ASTM E1527-13) and investigation; and b) in order to qualify for one of the CERCLA LLPs, the person commissioning the Phase I Environmental Site Assessment must have provided site-specific information (if available) to Hydro Tech before the date of this ESA, otherwise a determination could be made that all appropriate inquiry is not complete.

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

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

Data Gap	Significance
Site History - not conducted to time of first development and/or 5 year intervals.	Low - unlikely to alter conclusions due to findings of other resource(s).
Site Access - no access to building interiors	Low - Medium - unlikely to alter conclusions due to findings of other resource(s).
No environmental lien provided.	Low - unlikely to alter conclusions due to findings of other resource(s).

Municipal Records - FOIAs not returned as of date of report.	Unknown - Any FOIA responses that alter the conclusions of the report will be provided upon receipt.
--	--

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

3.0 SUBJECT PROPERTY DESCRIPTION

3.1 Subject Property Vicinity

The Subject Property is located at the northwest corner of Leroy Street and Greenwich Street, in the borough of Manhattan, NY. The borough of Manhattan is situated in the western portion of New York City.

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

3.2 Subject Property Description

The address of the Subject Property is identified as 111 Leroy Street and 621 to 623 Greenwich Street, Manhattan, NY. The Subject Property is approximately 17,955 square feet in area and is occupied by two vacant one-story commercial buildings and a commercial parking lot. The parking lot is paved with asphalt and contains an attendant booth and 30 aboveground hydraulic lifts for parking. The former occupants of the buildings could not be identified. *Appendix A* provides photographs of the Subject Property.

Access to the Subject Property is via Leroy Street to the south, Greenwich Street to the west and Morton Street to the north.

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

3.3 Adjacent Land Use

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

Direction	Adjacent Parcel	Surrounding Parcels
North	Multi-story office building	Residential / Commercial
South	Multi-story residential and commercial building (gym)	Residential / Commercial
East	Multi-story residential and commercial building (café)	Residential / Commercial
West	Two-story art gallery	Residential / Commercial

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

Hydro Tech does not believe that any of the surrounding parcels should impact upon the environmental quality of the Subject Property.

3.4 Proximity to Environmentally Sensitive Areas

The results of the Site inspection and an evaluation of the United States Geological Survey (USGS) 7-1/2 Minute Topographic Map containing the properties indicate there are eleven sensitive receptors present within a 0.125-mile radius of the Subject Property. The receptors consist of schools, medical offices, and residences. None of the receptors are adjacent to the Subject Property. Due to their proximity, the Subject Property should not impact upon the receptors.

3.5 Environmental Setting

The Subject Property is located in the southwest portion of the Borough of Manhattan, New York. The elevation of the Subject Property is approximately 14 feet above mean sea level (USGS 7.5-Minute Central Park, New York Quadrangle, 1995).

The vicinity of the Subject Property is characterized by metamorphosed sequence of bedrock known as the Manhattan Prong of the Hartland Formation.

The Hartland Formation was formed during the late Cambrian to early Ordovician period and consists of undivided pelitic schist with gneiss and amphibolite. The formation is frequently cross cut by transverse and parallel faults. The area is overlain by Pleistocene aged glacial till deposits.

The depth to water in the vicinity of the Subject Property is estimated to be at 14 feet. The regional groundwater flow direction in the vicinity of the Site is presumed to be toward the west in the direction of the Hudson River.

4.0 HISTORICAL USE

4.1 Sanborn Maps

Sanborn Fire Rate Insurance Maps for the Subject Property and its vicinity dated 1895, 1904, 1919, 1921, 1928, 1950, 1969, 1975, 1979, 1980, 1983, 1985, 1987, 1988, 1991, 1992, 1993, 1994, 1995, 1996, 2001, 2002, 2003, 2004, and 2005 were obtained from EDR and evaluated in order to establish the history of the Site. *Appendix B* provides a copy of the Sanborn Fire Rate Insurance Maps.

Date	Subject Property Shown As	Surrounding area
1979-2005	2-story unspecified use concrete building, 1-story manufacturing building, Parking lot	Residential and commercial buildings
1950-1969	Auto body repair shop, Welding shop, Motor Parts Store, Parking lot	Residential and commercial buildings
1928	Subject Property not shown	Residential and commercial buildings
1895-1921	Residential buildings with basements	Residential and commercial buildings

4.2 City Directory Search

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

The following provides a listing of all documented usages of the addresses 111-113 Leroy Street:

Date	Use of Subject Property	Surrounding Property Use
2013	YENOM, Parking lot	Residences & commercial
2008	Red House Music Inc, Parking lot	
2006	Red House Music Inc, RGH Enterprises, Omad Records, Parking lot	
1998-2000	Red House Music Inc, RGH Enterprises, Parking lot	
1993	Time Capsules Sound Stage, Parking lot	
1988	Broken Sound Services, Parking lot	
1978-1983	Clarke Div McGraw Edison Company, Parking lot	
1973	Clarke Floor Machine Company	
1968	Dierckx Jules Equipment Corp, Material Handling & Mercury Manufacturing Company	
1963	Tow Motor Corp	
1947-1958	Gerlinger Lift Trucks, Moore A Distributors & Tow Motor Corp	
1920-1931	Residential	

4.3 Previous Studies

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

4.4 Previous Owners

According to the property listing on Property Shark and ACRIS, the following provides a list of historical owners of the Site

Year	Name Of Previous Owner(s)
2013	Kmg Pma Leroy LLC
2007	Kmg Pma Leroy LLC & Jonathan Morse
2006	IRMA Associates LLC
1995	IRMA Associates LLC
1991	Rita Fieber
1968	RIMA Equities, INC & Rector Churchwardens

4.5 Historical Use Summary

Based on a review of available information provided and/or obtained for the Subject Property as of the date of this ESA, it appears that the Subject Property was first developed between prior to 1895 with residential buildings with basements. The existing structure was constructed between 1931 and 1947 with a 2-story concrete building. Historical maps note the use of the Subject Property as an auto body shop in 1950 through 1969. Historical maps indicate that the building in the northwest portion of the Subject Property (623 Greenwich Street) was used as a welding shop from 1950 through 1969 and for unspecified manufacturing from 1975 through 2005. Operations involving auto repairs, welding and manufacturing typically utilize petroleum and/or hazardous materials, the release of which may have impacted upon the environmental quality of the Subject Property.

Furthermore, historic maps indicate several multi-story dwellings with basements occupied the Subject Property from 1885 through 1921. All dwellings were demolished and replaced between 1921 and 1950 with the site improvements observed during site reconnaissance. Since the parking lot is at grade level and none of the current buildings at the Subject Property contain basements, the presence of unknown fill material should be considered a REC.

Numerous data gaps (maximum 7 years) were noted in the historical map review. Due to other historical information obtained over the course of this investigation, Hydro Tech does not consider this data failure/data gap significant, as it appears unlikely to have affected potential Recognized Environmental Conditions at the subject site.

5.0 RECORDS REVIEW

5.1 Environmental Databases

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

ASTM Standard Environmental Record Source	Approx. ASTM Minimum Search Distance (MSD)	Number of Mapped Sites within MSD	Number of Orphan Sites
1. NPL (Superfund) <i>National Priorities List</i>	1.0 Mile	1	0
2. Delisted NPL Site <i>Delisted National Priorities List Site</i>	0.5 Mile	0	0
3. CERCLIS <i>Comprehensive Environmental Response Compensation & Liability Information System</i>	0.5 Mile	2	0
4. CERCLIS NFRAP <i>CERCLIS No Further Remedial Action Planned Site</i>	0.5 Mile	1	0
5. RCRA-TSD CORRACTS <i>Resource Conservation & Recovery Treatment/Storage/Disposal Facility Subject to Corrective Action</i>	1.0 Mile	0	0
6. RCRA-TSD <i>Resource Conservation & Recovery Treatment/Storage/Disposal Facility (Non-Corrective Action)</i>	0.5 Mile	0	0
7. RCRA-LG <i>Resource Conservation & Recovery Large Quantity Generator</i>	Site & Adjoining	0	0
8. RCRA-SG <i>Resource Conservation & Recovery Small Quantity Generator</i>	Site & Adjoining	1	0
9. ERNS <i>Emergency Response Notification System</i>	Property Only	0	0
10. Local / State / Tribal UST, PBS <i>Registered Storage Tanks</i>	Site & Adjoining	1	0
11. Local / State / Tribal LTANKS <i>Leaking Underground Storage Tanks</i>	0.5 Mile	56	0
12. State Spill Incidents <i>NYSDEC Spill Sites</i>	0.125 Mile	31	1
13. Local / State / Tribal SWF <i>Solid Waste Facility / Landfill</i>	0.5 Mile	2	0
14. Local / State / Tribal CERCLIS <i>Inactive Hazardous Waste Disposal Site</i>	0.5 Mile	1	0
16. Inst. / Engineering Controls <i>Registry of Institutional and/or Engineering Controls</i>	Property Only	0	0
17. Voluntary Cleanup Program Sites <i>Local / State / Tribal VCP Sites</i>	0.5 Mile	0	0
18. Brownfield Sites <i>Local / State / Tribal Brownfield Sites</i>	0.5 Mile	3	0

19. Non-ASTM Record Source(s)	Not Applicable	No MSD has been established by ASTM for these sources
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The review and evaluation of the above Federal and State/Tribal/Local Databases indicates that the Subject Property is identified in the E-Designation, Underground Storage Tank (UST), LTANK, and NYS Spill databases. No adjacent properties were identified in the databases. FOIL requests were sent to the New York State Department of Environmental Conservation (NYSDEC) for the LTANK and NYS Spill incidents ; to date these FOIL requests have not been received.

The Subject Property has been assigned a Little "E" Designation by the New York City Department of City Planning for Air Quality (E-211). The Subject Property designation is found under City Environmental Quality Review (CEQR) number #07DCP095M. The association of the Subject Property with an E-designation number should be considered a REC.

The UST database lists 1 tank at the Subject Property. The installation date of the tank is not reported. The tank is a 1,500 gallon #2 fuel oil tank that is currently active. This tank is associated with an LTANK listing and a NYS Spill listing. The LTANK spill is designated as Spill #0300861. The leak was reported on April 24, 2003. Upon investigation, no release of fuel oil was noted in the soil around the tank. The spill was closed on May 2, 2006. The presence of the closed LTANK at the Subject Property should be considered a Controlled REC.

The NYS Spill #0611866 was reported on January 26, 2007 and was caused by Con Edison installing a line to the tank incorrectly. The spill remains open pending remediation by Con Edison. The association of an open spill number with the Subject Property should be considered a REC.

Fifty five incidents are listed in the Leaking Underground Storage Tanks (LUSTs) database within a ½ mile radius of the Subject Property. Fifty three of the 55 LUSTs have been cleaned up to the satisfaction of the NYSDEC and are considered closed; the remaining two LUST sites are active. One active LUST site is located 2183 feet east and upgradient of the Subject Property. Upon retesting, no contamination was found at the site. The second LUST site is located 2,546 feet to the southeast and downgradient to the Subject Property. Corrective action is being taken at the site. None of the spill sites should impact upon the environmental quality of the Subject Property due to various factors such as their location relative to groundwater flow direction, their current regulatory status, the nature of the spills and/or their proximity to the Subject Property.

Thirty one properties are listed in the NY Spills database within a 0.125-mile radius of the Subject Property. None of the spills are adjacent to the Subject Property. All 31 of the sites have been cleaned up to the satisfaction of the NYSDEC and are listed as closed. . None of the spill sites should impact upon the environmental quality of the Subject Property due to various factors such as their location relative to groundwater flow direction, their current regulatory status, the nature of the spills and/or their proximity to the Subject Property.

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

One Federal NPL site is located within 1.0 miles of the Subject Property. The site is located 1231 feet to the west and downgradient of the Subject Property. Due to its proximity, the NPL site should not impact upon the environmental quality of the Subject Property.

Two CERCLIS sites are located within 0.5 miles of the Subject Property. The first is located 1231 feet to the west and downgradient of the Subject Property. The second is located 1172 feet and crossgradient of the Subject Property. Due to their proximity, the CERCLIS sites should not impact upon the environmental quality of the Subject Property.

One CERCLIS NFRAP is located within 0.5 miles of the Subject Property. The site is 863 feet to the southeast and crossgradient of the Subject Property. The site is not listed as an NPL site. Due to its proximity, the CERCLIS NFRAP site should not impact upon the environmental quality of the Subject Property.

One RCRA Small Quantity Generator (SQG) is located adjacent to the Subject Property. This SQG is 111 feet to the southwest and downgradient of the Subject Property. The site generates wastes including silver and halogenated solvents. Due to its relative location to the Subject Property, the RCRA SQG should not impact upon its environmental quality.

One State Hazardous Waste Site (SHWS) is located within 0.5 miles of the Subject Property. The site is located 540 to the northeast and crossgradient of the Subject Property. An investigation at the site is currently underway to assess environmental impacts. Due to its proximity, the SHWS site should not impact upon the environmental quality of the Subject Property.

Two Solid Waste Facilities (SWFs) are located within 0.5 miles of the Subject Property. The first is located 1,700 feet southwest and downgradient of the Subject Property. The site is currently inactive. The other site is 504 feet to the southwest and is listed as a paper recycling facility. Due to their proximity, these SWF sites should not impact upon the environmental quality of the Subject Property.

Three Brownfield sites are located within 0.5 miles of the Subject Property. The first site is located 1,963 feet south and crossgradient of the Subject Property. The second brownfield site is located 2,433 feet to the southwest and downgradient of the Subject Property. The last brownfield site is located 2,468 feet to the north and downgradient of the Subject Property. Environmental investigations and remedial efforts are being performed at each of the Brownfield sites. Due to their proximity, none of the Brownfield sites should impact upon the environmental quality of the Subject Property.

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

5.2 Municipal Records

Freedom of Information Act (FOIA) requests were issued to the following regulatory agencies with respect to the Subject Property. All reasonably ascertainable municipal records are provided with this report. *Appendix E* provides copies of the municipal documents.

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

New York City Department of City Planning

A FOIA request was submitted to the New York City Zoning Department. The addresses of the Subject Properties are identified as 621-623 Greenwich Street and 111-113 Leroy Street, Manhattan, NY. The tax map numbers are listed as Block 602, Lots 54 and 83.

The New York City Zoning Department indicated that the Subject Property is zoned for "M1-5 and R7X". Block 602, Lot 83 is listed as a little "E" Designation for Air. E-211 has been assigned to the Subject Property. The association of the Subject Property with an E-designation should be considered a REC.

New York City Department of Building

All obtainable FOIA documents were obtained via written request or other means. A FOIA request was submitted to the New York City Department of Building (NYCDOB). The NYCDOB file for 111-113 Leroy Street has 4 complaints (none open), 8 DOB violations (5 open), 10 jobs, and 37 actions. The five open DOB violations are related to the boiler applications and permits. The jobs are related to renovations and replacing the boiler and oil burner at the Subject Property. The 1947 NYCDOB Certificate of Occupancy indicates the classification use for 111-113 Leroy Street as a repair shop for lift machines and office space and that fuel oil was used for heating. The 1985 CO lists the 111-113 Leroy Street as a 2-story sound studio. The 1996 CO lists the Subject Property as an auto repair shop and sound studio. As previously discussed, the presence of a UST and the historic use of the Subject Property outlined in the DOB files should be considered RECs.

The NYCDOB file for 619-621 Greenwich Street has 1 DOB violations (none open) and 22 actions. The actions are related to alterations, building notices, a Certificate of Occupancy, complaints, demolition permits, an electric sign application, a new building, plumbing, special reports, unsafe building citations, and the closed DOB violation. The 1935 NYCDOB Certificate of Occupancy indicates the classification use for 621 Greenwich Street is of mixed use of commercial and residential.

New York City Department of Housing Preservation and Development

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

New York City Department of Health

A FOIA request was submitted to the New York City Department of Health (NYCDOH). The NYCDOH was contacted via telephone to obtain the status of the FOIA request. As of the date of this report, the NYCDOH has not responded to our initial search request or subsequent follow-up calls. Any information provided by the NYCDOH will be provided as soon as it has been received and evaluated.

New York City Bureau of Fire Prevention

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

New York State Department of Environmental Conservation

A FOIA request was submitted to the New York State Department of Environmental Conservation (NYSDEC). As of the date of this report, the NYSDEC has not responded to our initial search request. Any information provided by the NYSDEC will be provided as soon as it has been received and evaluated. The NYSDEC website was also searched for any records associated with the Subject Property. The Subject Property identified in the Spill Record Database with the previously mentioned spill #0611866. The database states that 10 gallons of #2 fuel oil impacted the soil at the Subject Property. The spill is open as of the date of this report. Additionally, spill #0300861 occurred on April 24, 2003. This spill involved an unknown amount of #2 fuel oil being released into the soil at the site. This spill was closed on May 2, 2006. Finally, The NYSDEC database also identified 111 Leroy Street as a Petroleum Bulk Storage site. According to the database, one 1,500 gallon UST is in service at the Subject Property. This information is consistent with the results of the database search described in section 5.1 The UST and open spill site at the Subject Property represent RECs. The closed spill at the Subject Property represents a CREC.

New York City Department of Environmental Protection

A FOIA request was submitted to the New York City Department of Environmental Protection (NYCDEP). In their search, the NYCDEP has not discover anything pertaining to Pollution Control and Monitoring.

6.0 SITE RECONNAISSANCE

Ms. Sasha Rothenberg of Hydro Tech performed the site reconnaissance portion of the Phase I Assessment on March 14, 2014. The weather during the inspection was sunny and approximately 35 degrees Fahrenheit.

Hydro Tech inspected all accessible portions of the Subject Property. Due to limited site access (no access to building interiors), Hydro Tech cannot fully evaluate potential items such as: stained surfaces, distressed vegetation, suspect-asbestos containing material, suspect lead-based paint, mold, storage tanks, drainage structures, waste storage procedures, on-site operations and monitoring wells. The following pertinent information was obtained during the Subject Property Reconnaissance:

1. Industrial Processes:

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

2. Suspect Asbestos-Containing Materials:

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

3. Suspect Lead-Based Paint:

Peeling paint was observed in the stairway leading to the basement of the building. Due to the age of the building, the peeling paint is indicative of lead-based paint. The presence of suspect lead-based paint should be considered a REC.

No other visual evidence of peeling paint was identified at the Subject Property.

4. Drum Storage Areas:

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

5. Storage Tanks:

A vent pipe was identified along the southern exterior of 111 Leroy Street, which was previously identified in the NYSDEC PBS database. No corresponding fill port was observed in the vicinity of the vent pipe. One vent pipe and one fill port were identified in the northern portion of the parking lot at the Subject Property along Morton Street. No PBS records were identified for these vent and fill lines. The vent pipes and fill port are indicative of underground storage tanks, the presence of which may have impacted upon the environmental quality of the Subject Property. The presence of storage tanks should be considered a REC.

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

6. Subsurface Drainage Structures/Drains/Sumps:

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

No evidence of current or former septic/waste water/storm water discharge systems is identified at the Subject Property. The Subject Property is located in a well-served area in the New York City with a publicly managed combined sewer system.

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

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

7. PCB-Containing Equipment:

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

8. Monitoring / Potable Water Wells:

Two monitoring wells were identified at the Subject Property. One of the wells is located in the sidewalk along Greenwich Street in the western portion of the Site. The other well is located in the southeast portion of the Site in the sidewalk along Leroy Street. The presence of monitoring wells should be considered a REC.

No potable water wells were observed at the Subject Property.

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

No monitoring wells were identified on the adjacent properties.

9. Mold

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

10. Pits, Ponds, or Lagoons:

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

11. Wetlands

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

12. Staining/Stressed Vegetation:

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

13. Fill / Land Disposal / Solid Waste:

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

14. Engineering Controls:

No engineering controls were noted at the Subject Property.

15. Odors/Air Emissions:

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

16. Hazardous Substance / Petroleum Containers:

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

17. Radon:

USEPA's recommended action level is 4 picoCuries/liter and the average radon gas concentrations predicted in the Manhattan area is 2 picoCuries/liter. Since Manhattan is located in a Low Radon Potential area, radon gas should not be represent a potential environmental concern that would warrant the sampling for radon gas at the Subject Property.

7.0 CLIENT / USER-PROVIDED INFORMATION & INTERVIEWS

7.1 Client/User-Provided Information

During the course of the Phase I Assessment, interviews were conducted with respect to the operation and history of the Site and a Client/User Questionnaire was provided.

1. The client/user provided no records to Hydro Tech's request for information associated with Environmental Liens or Activity and Use Limitations against the property that may have been filed or listed under federal, tribal, state, or local law.
2. The client/user reported no specialized or actual knowledge or experience related to any potential Recognized Environmental Conditions at the Subject Property or nearby properties.
3. The client/user did not respond to Hydro Tech's request for information regarding the relationship of the purchase price of the property to fair market value, specifically if it has been adjusted due to the known or potential presence of on-site contamination.
4. The client/user reported no commonly known information or information within the local community regarding past use(s) of the property (including the storage and/or release of chemicals, hazardous substances, petroleum products, etc.) that could have affected the environmental integrity of the subject site.
5. The client/user could not confirm whether no environmental contamination or cleanups have occurred at the property in the past.
6. Hydro Tech Environmental provided the Questionnaire for the client/user to complete. Hydro Tech Environmental Questionnaire is provided in *Appendix F*.

7.2 Interviews

During the course of the Phase I Assessment, no site personal were provided to interview.

Although an interview with the present and former owner(s) was not possible as none were provided to HTE as of the date of this ESA, we do not believe that any such owner(s) would have additional material information regarding the potential for contamination at the property that was not obtained from other sources over the course of this investigation.

8.0 CONCLUSIONS

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

- The presence of unknown fill material (4.0)
- The historical use of the property for auto repairs, welding and manufacturing (4.0, 5.0)
- The presence of a NYC Little "E" Designation for Air Quality (5.0)
- The presence of an active NYSDEC Spill Case (5.0)
- The presence of underground storage tanks (6.0)
- The presence of monitoring wells (6.0)

The Phase I Environmental Site Assessment has revealed the following Controlled REC at the Subject Property:

- The presence of a closed LTANK at the Subject Property (5.0)

9.0 CREDENTIALS & DECLARATION

9.1 Credentials

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

9.2 Environmental Professional Declaration

We declare that to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in 40 CFR Part 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. Only where indicated we have developed and performed the AAIs in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

10.0 REFERENCES

1. Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM E 1527-13, American Society for Testing and Materials, West Conshohocken, PA.
2. Principals of Groundwater Engineering, William C. Walton, Lewis Publishers, Inc., 1991.
3. The Long Island Ground Water Pollution Study, New York State Department of Environmental Conservation, 1972.
4. *Geochemical traverse across Cameron's Line, Boro Hall Park, Bronx, New York*, Cadmus, D., Hodgson, R., Gatto, L.M., and Puffer, J.H., Geology Department, Rutgers University, Newark, NJ.
5. *EDR Environmental Data Resources, 111 Leroy Street, Manhattan, NY, March 12, 2014*. The EDR – Aerial Photographs, Milford, Connecticut.
6. *EDR Environmental Data Resources, 111 Leroy Street, Manhattan, NY, March 12, 2014*. The EDR – City Directory Abstract, Milford, Connecticut.
7. *EDR Environmental Data Resources, 111 Leroy Street, Manhattan, NY, March 12, 2014*. The EDR – Radius Map, Milford, Connecticut.
8. Property Shark Property Profile for 111 Leroy Street and 621 to 623 Greenwich Street, New York, NY from <http://www.propertyshark.com/mason/>.
9. Long Island Home Inspection, (n.d.), Radon on Long Island, from <http://www.longislandhomeinspection.com/content/radon-long-island>
9. U.S Fish Wildlife Services National Wetlands Inventory <http://www.fws.gov/wetlands/Wetlands-Mapper.html>

11.0 EXCLUSIONS & DISCLAIMER

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

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

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

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

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

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

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

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

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

FIGURES

ADJACENT 7-STORY
COMMERCIAL



MORTON STREET

SIDEWALK

VENT
PIPE

FILL
PORT

ADJACENT 13-STORY
RESIDENTIAL

ADJACENT 3-STORY
COMMERCIAL



ADJACENT 6-STORY
RESIDENTIAL/
COMMERCIAL

2-STORY
BUILDING

COMMERCIAL
PARKING LOT

2-STORY
BUILDING

ADJACENT 9-STORY
COMMERCIAL

ADJACENT 5-STORY
RESIDENTIAL

GREENWICH STREET

SIDEWALK

MONITORING
WELL

SIDEWALK

VENT
PIPE

MONITORING
WELL

LEROY STREET

ADJACENT 9-STORY
COMMERCIAL



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

www.hydrotechenvironmental.com

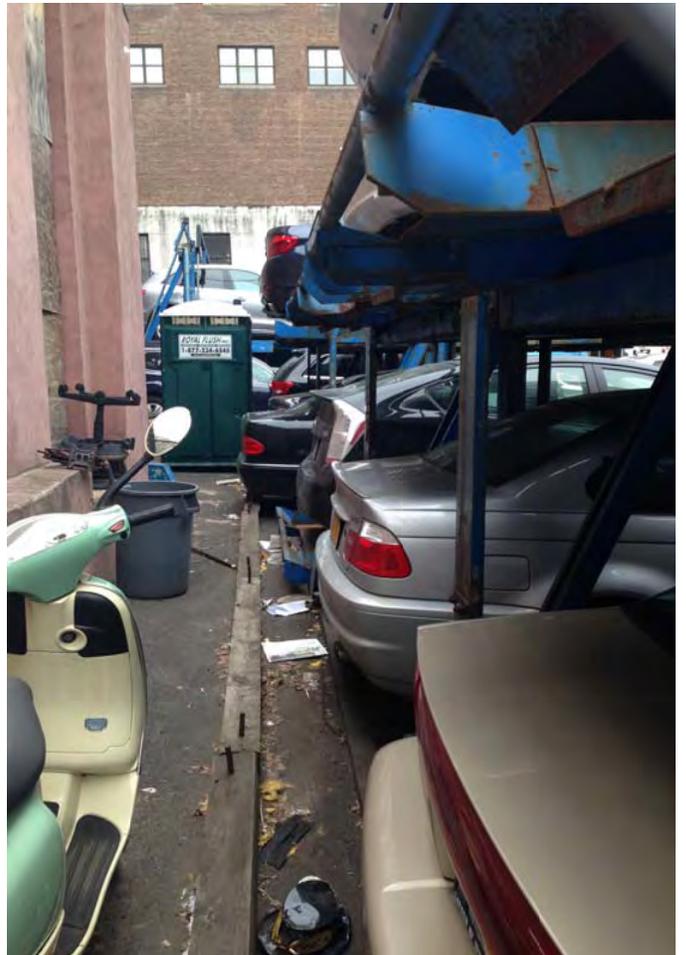
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617 & 623 Greenwich St
New York, NY
HTE Job # 140059

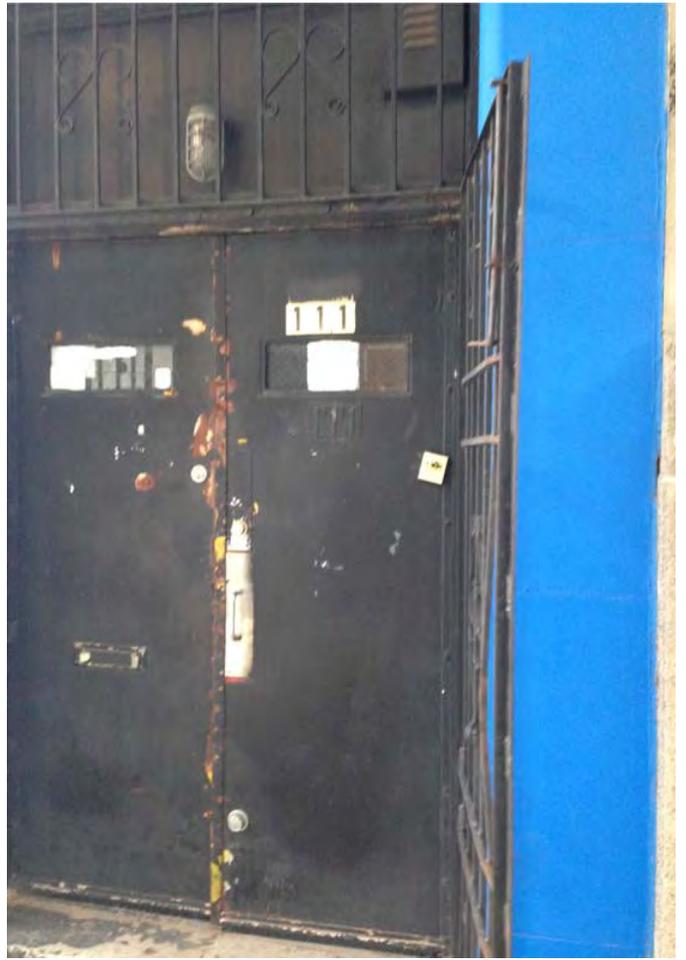
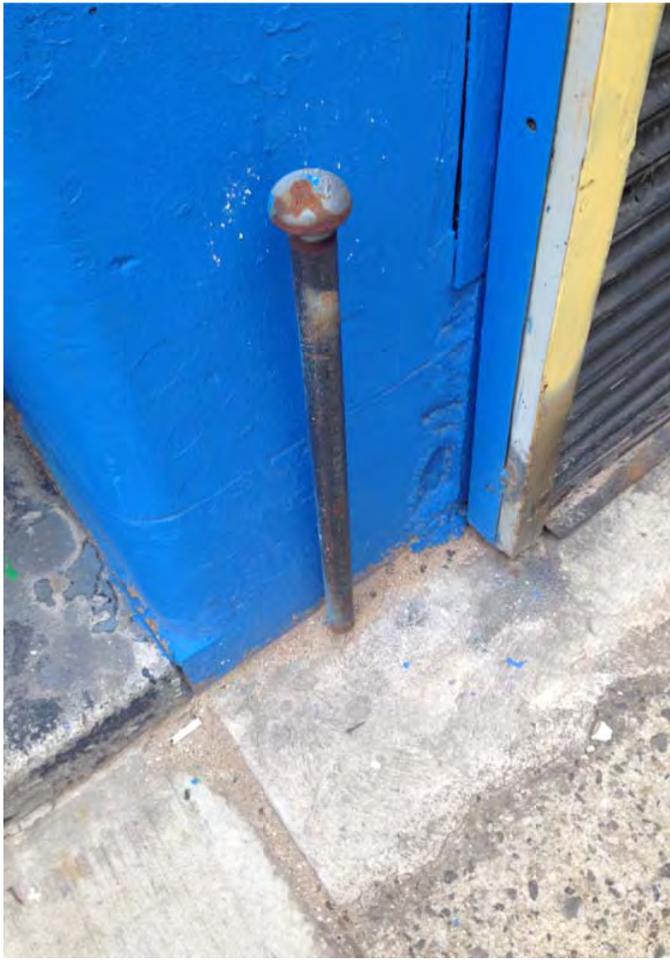
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Reviewed By: M.R.
Approved By: M.S.
Date: 03/20/14
Scale: AS NOTED

TITLE:

FIGURE 1: SITE PLAN

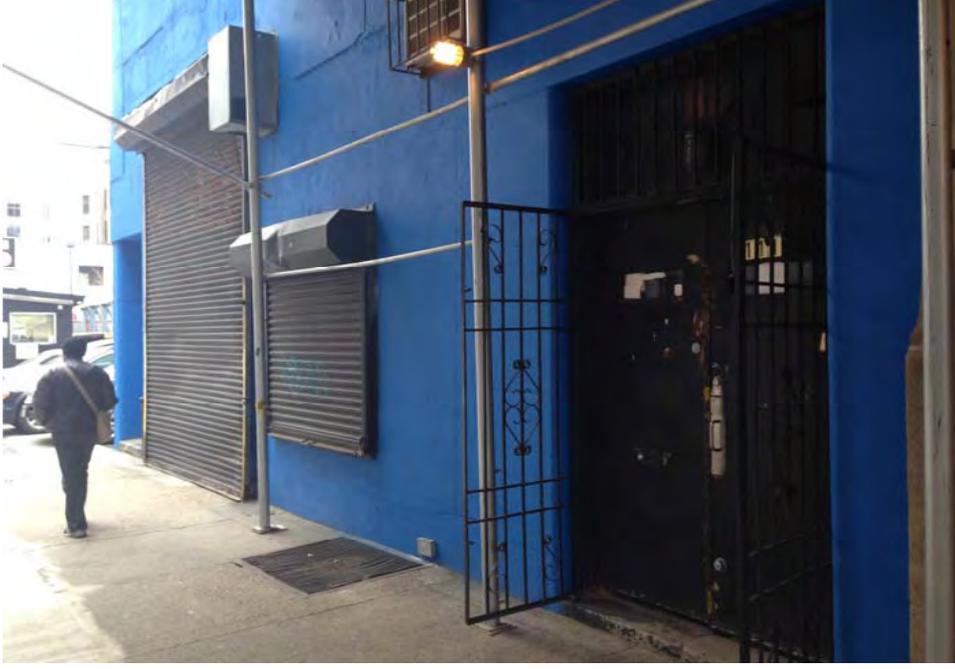
APPENDIX A
PHOTOGRAPHS













APPENDIX B
SANBORN MAPS

111 Leroy Street, NY, NY

111 Leroy Street.

New York, NY 10014

Inquiry Number: 3878053.3

March 12, 2014

Certified Sanborn® Map Report



6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

3/12/14

Site Name:

111 Leroy Street, NY, NY
111 Leroy Street.
New York, NY 10014

Client Name:

Hydro Tech Env. Corp.
77 Arkay Drive
Hauppauge, NY 11788-0000



EDR Inquiry # 3878053.3

Contact: Yvonne Martinez

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Hydro Tech Env. Corp. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: 111 Leroy Street, NY, NY
Address: 111 Leroy Street.
City, State, Zip: New York, NY 10014
Cross Street:
P.O. # 6101
Project: 140059
Certification # 57AD-4FC5-8C38



Sanborn® Library search results
Certification # 57AD-4FC5-8C38

Maps Provided:

2005	1995	1987	1969	1895
2004	1994	1985	1950	
2003	1993	1983	1928	
2002	1992	1980	1921	
2001	1991	1979	1919	
1996	1988	1975	1904	

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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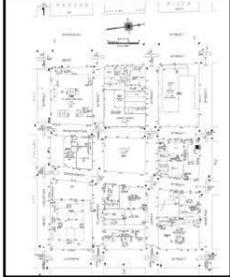
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Sanborn Sheet Thumbnails

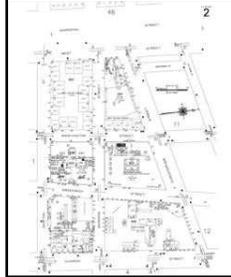
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2005 Source Sheets



Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3



Volume 3, Sheet 4

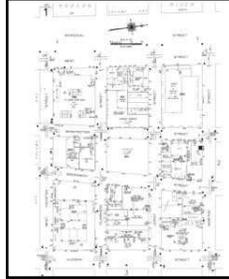
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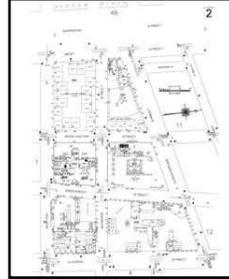
Volume 3, Sheet 3



Volume 3, Sheet 4

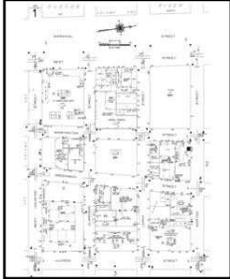


Volume 3, Sheet 1



Volume 3, Sheet 2

2003 Source Sheets



Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3

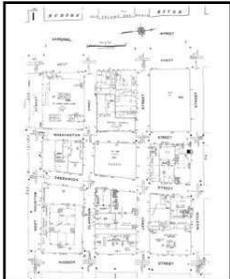


Volume 3, Sheet 4

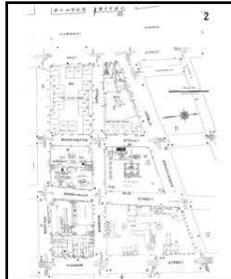


Volume 1S, Sheet xxxx

2002 Source Sheets



Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3

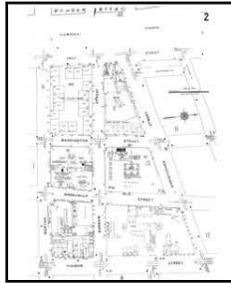


Volume 3, Sheet 4

2001 Source Sheets



Volume 3, Sheet 1



Volume 3, Sheet 2

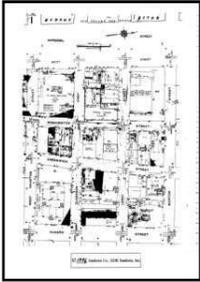


Volume 3, Sheet 3

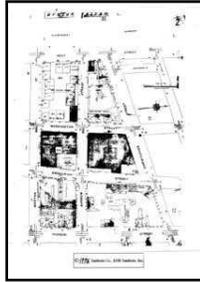


Volume 3, Sheet 4

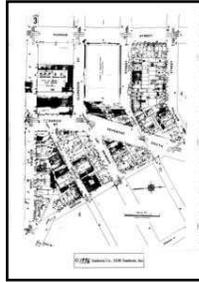
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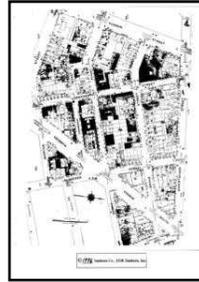
Volume 3, Sheet 1



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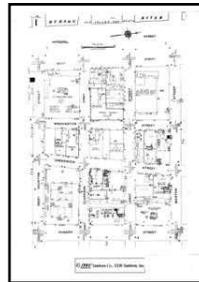
Volume 3, Sheet 3



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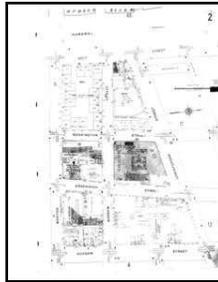


Volume 3, Sheet 1

1994 Source Sheets



Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3



Volume 3, Sheet 4

1993 Source Sheets



Volume 3, Sheet 2



Volume 3, Sheet 3



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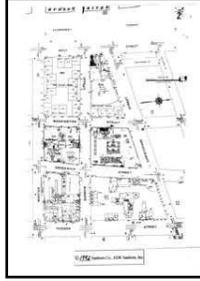


Volume 3, Sheet 1

1992 Source Sheets



Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3



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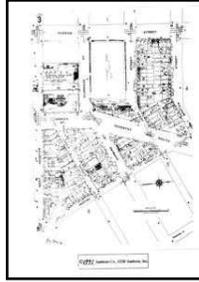
1991 Source Sheets



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Volume 3, Sheet 2



Volume 3, Sheet 3

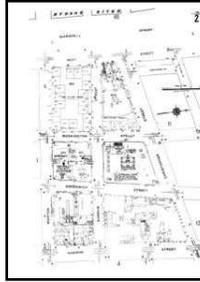


Volume 3, Sheet 4

1988 Source Sheets



Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3



Volume 3, Sheet 4

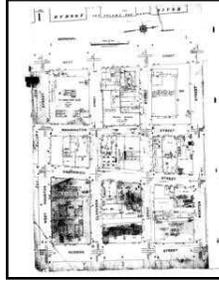
1987 Source Sheets



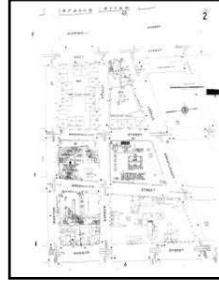
Volume 3, Sheet 3



Volume 3, Sheet 4

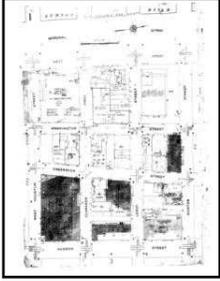


Volume 3, Sheet 1

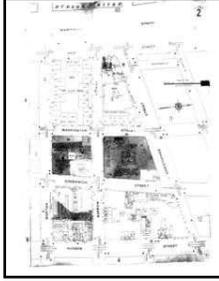


Volume 3, Sheet 2

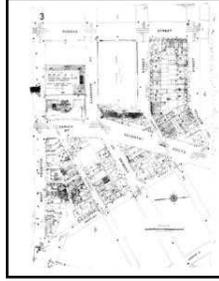
1985 Source Sheets



Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3

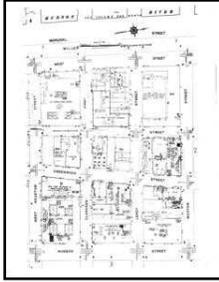


Volume 3, Sheet 4

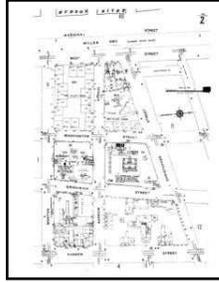
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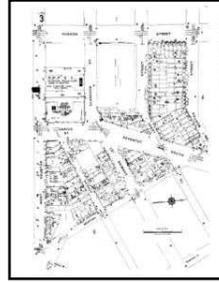
Volume 3, Sheet 4



Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3

1980 Source Sheets



Volume 1S, Sheet xxxx



Volume 2, Sheet xxxx



Volume 3, Sheet xxxx



Volume 3, Sheet 2

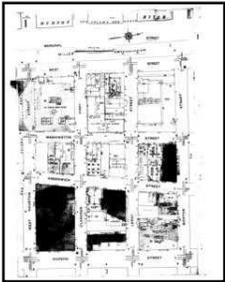


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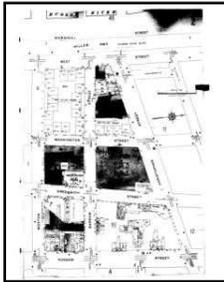
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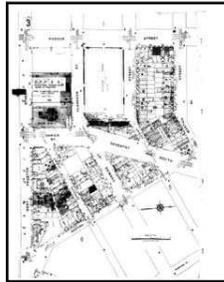
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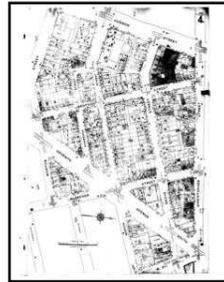
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Volume 3, Sheet 2

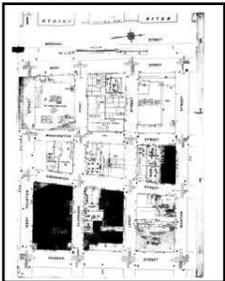


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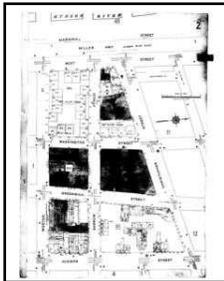


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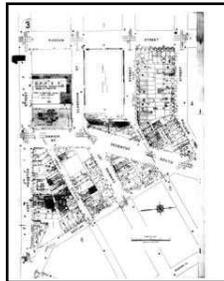
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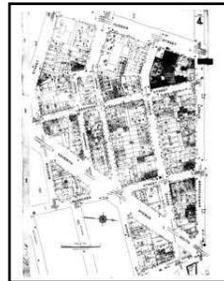
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Volume 3, Sheet 2



Volume 3, Sheet 3

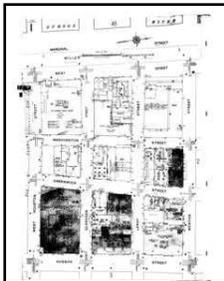


Volume 3, Sheet 4

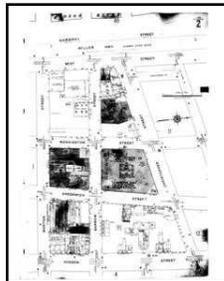
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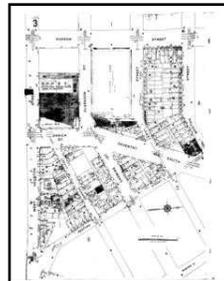
Volume 3, Sheet 4



Volume 3, Sheet 1



Volume 3, Sheet 2

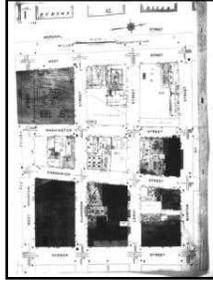


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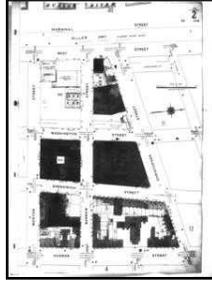
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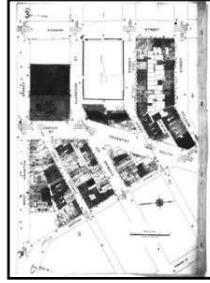
Volume 3, Sheet xxxx



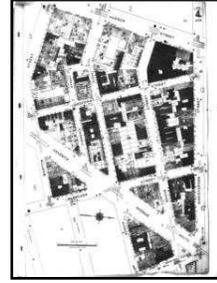
Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3



Volume 3, Sheet 4



Volume 1S, Sheet xxxx

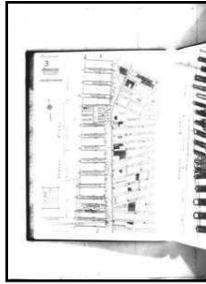


Volume 2, Sheet xxxx

1928 Source Sheets

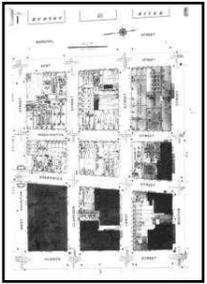


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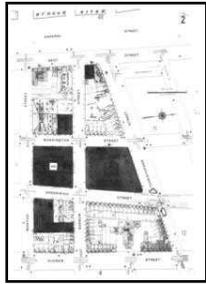


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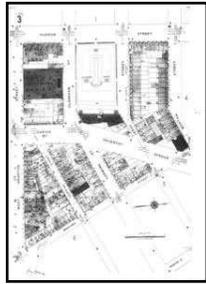
1921 Source Sheets



Volume 3, Sheet 1



Volume 3, Sheet 2



Volume 3, Sheet 3

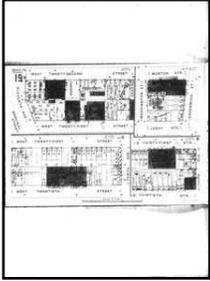


Volume 3, Sheet 3

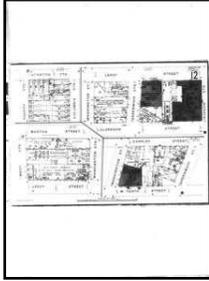


Volume 3, Sheet 4

1919 Source Sheets



Volume Atlas Maps, Sheet 19



Volume Atlas Maps, Sheet 12

1904 Source Sheets



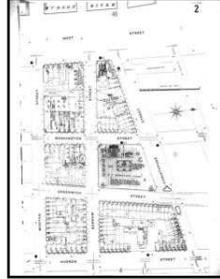
Volume 3, Sheet 3



Volume 3, Sheet 4



Volume 3, Sheet 1



Volume 3, Sheet 2

1895 Source Sheets



Volume 3, Sheet 51



Volume 3, Sheet 52



Volume 3, Sheet 52

2005 Certified Sanborn Map



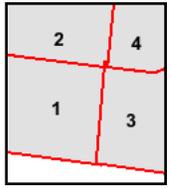
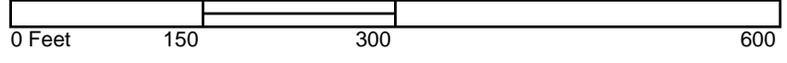
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2004 Certified Sanborn Map



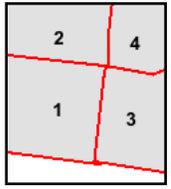
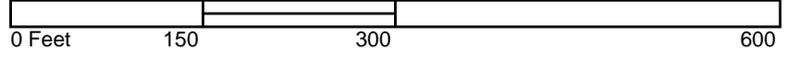
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2003 Certified Sanborn Map

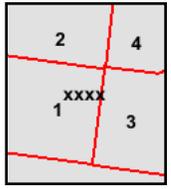
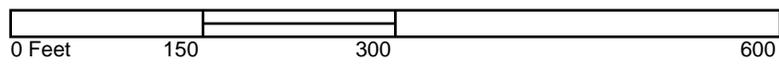
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2002 Certified Sanborn Map



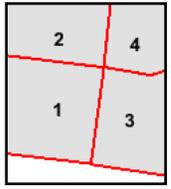
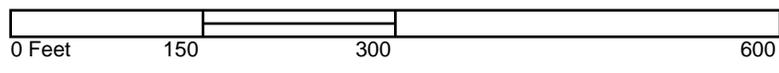
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2001 Certified Sanborn Map



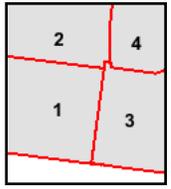
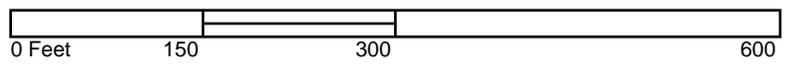
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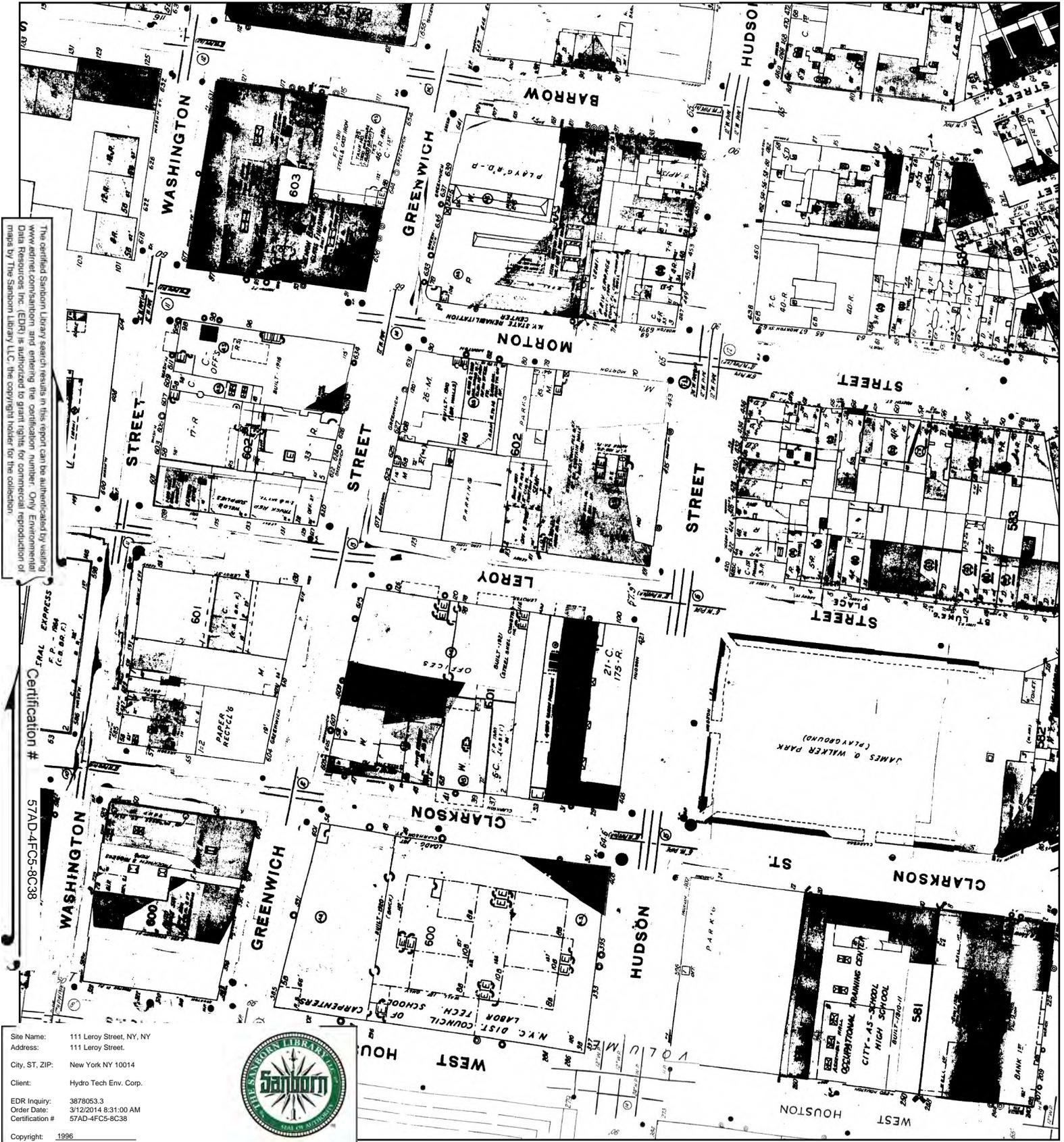
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1996 Certified Sanborn Map



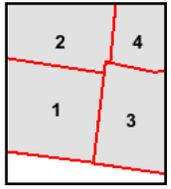
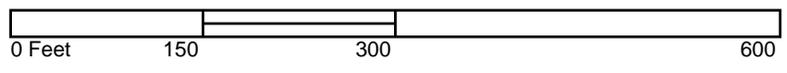
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1995 Certified Sanborn Map



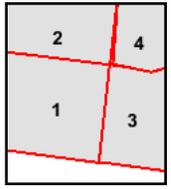
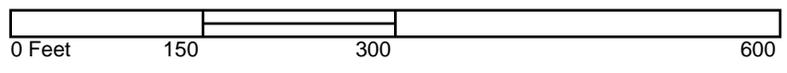
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1994 Certified Sanborn Map



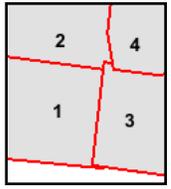
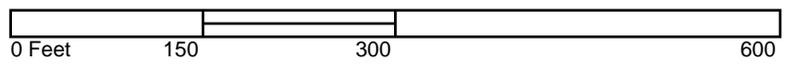
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1993 Certified Sanborn Map



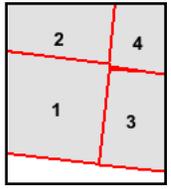
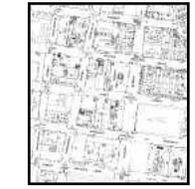
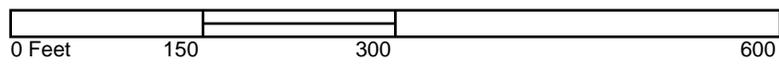
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1992 Certified Sanborn Map

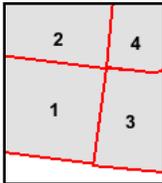
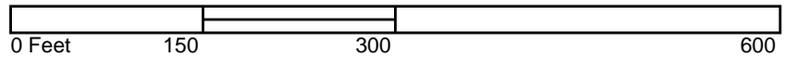


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1991 Certified Sanborn Map



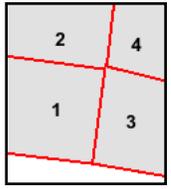
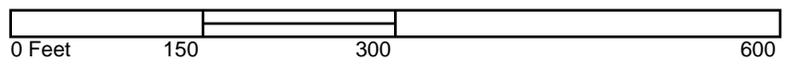
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1988 Certified Sanborn Map



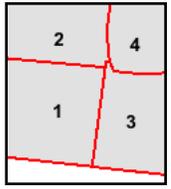
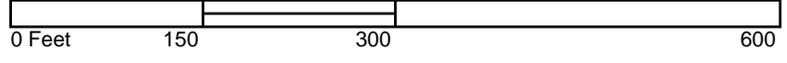
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1987 Certified Sanborn Map



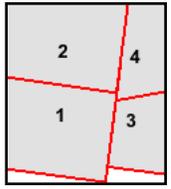
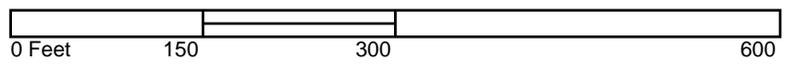
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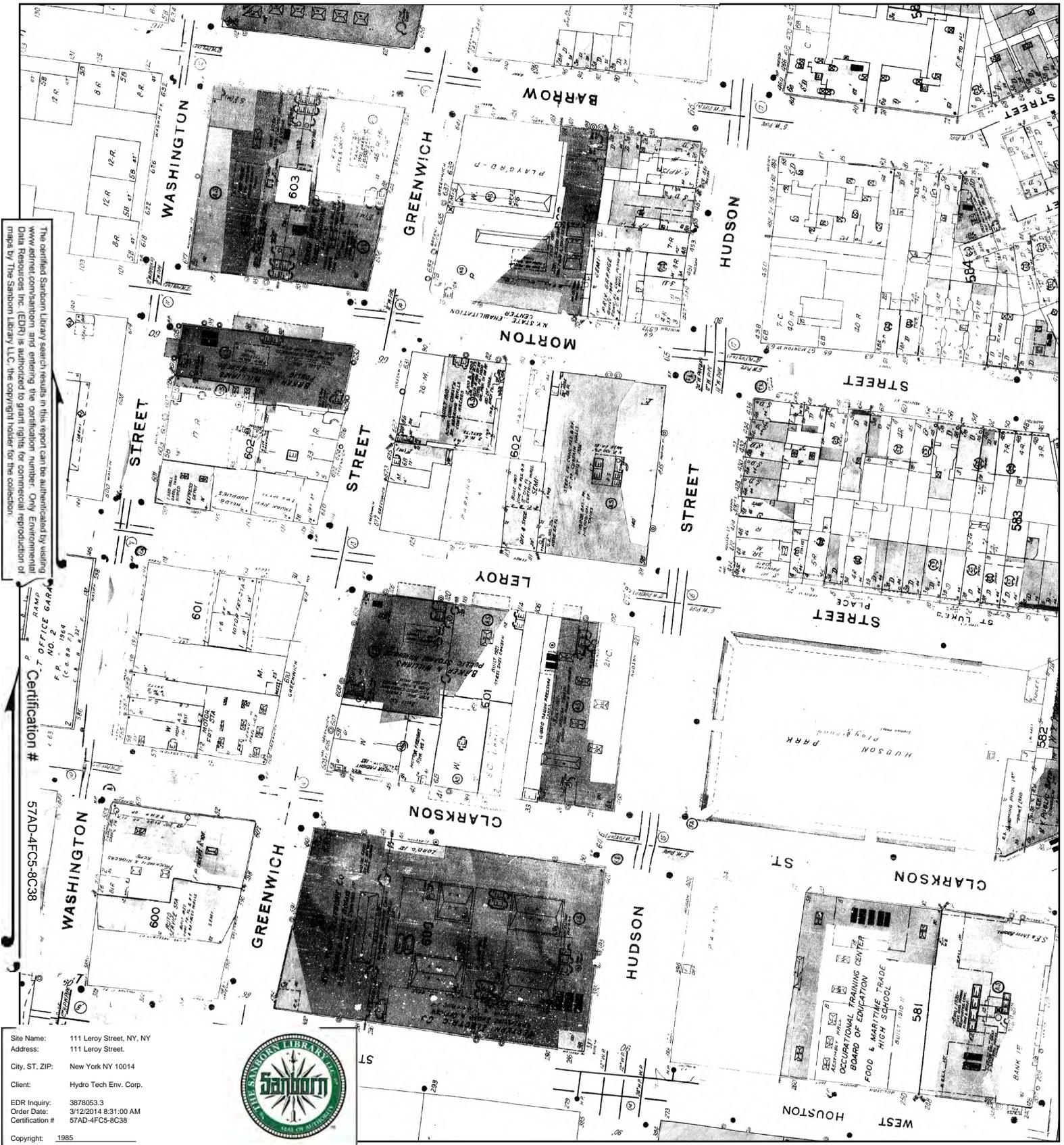
This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



- Volume 3, Sheet 3
- Volume 3, Sheet 4
- Volume 3, Sheet 1
- Volume 3, Sheet 2



1985 Certified Sanborn Map



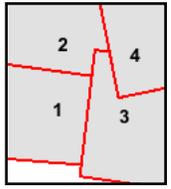
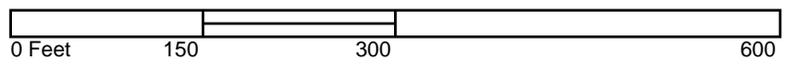
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RAMPS
 OFFICE BARRACKS
 F.P. NO. 2
 (C.C. OR 1964)
 Certification #
 57AD-4FC5-8C38

Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street,
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053.3
 Order Date: 3/12/2014 8:31:00 AM
 Certification # 57AD-4FC5-8C38



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 Outlined areas indicate map sheets within the collection.



- Volume 3, Sheet 1
- Volume 3, Sheet 2
- Volume 3, Sheet 3
- Volume 3, Sheet 4



1983 Certified Sanborn Map



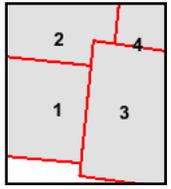
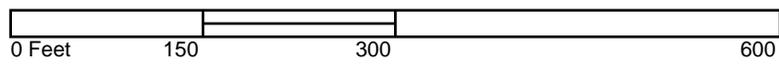
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Office Garag
RAMP
OFFICE GARAG
P.O. NO. 2
1964
(C.R. 84 13)
Certification #
57AD-4FC5-8C38

Site Name: 111 Leroy Street, NY, NY
Address: 111 Leroy Street.
City, ST, ZIP: New York NY 10014
Client: Hydro Tech Env. Corp.
EDR Inquiry: 3878053.3
Order Date: 3/12/2014 8:31:00 AM
Certification #: 57AD-4FC5-8C38
Copyright: 1983



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



- Volume 3, Sheet 4
- Volume 3, Sheet 1
- Volume 3, Sheet 2
- Volume 3, Sheet 3

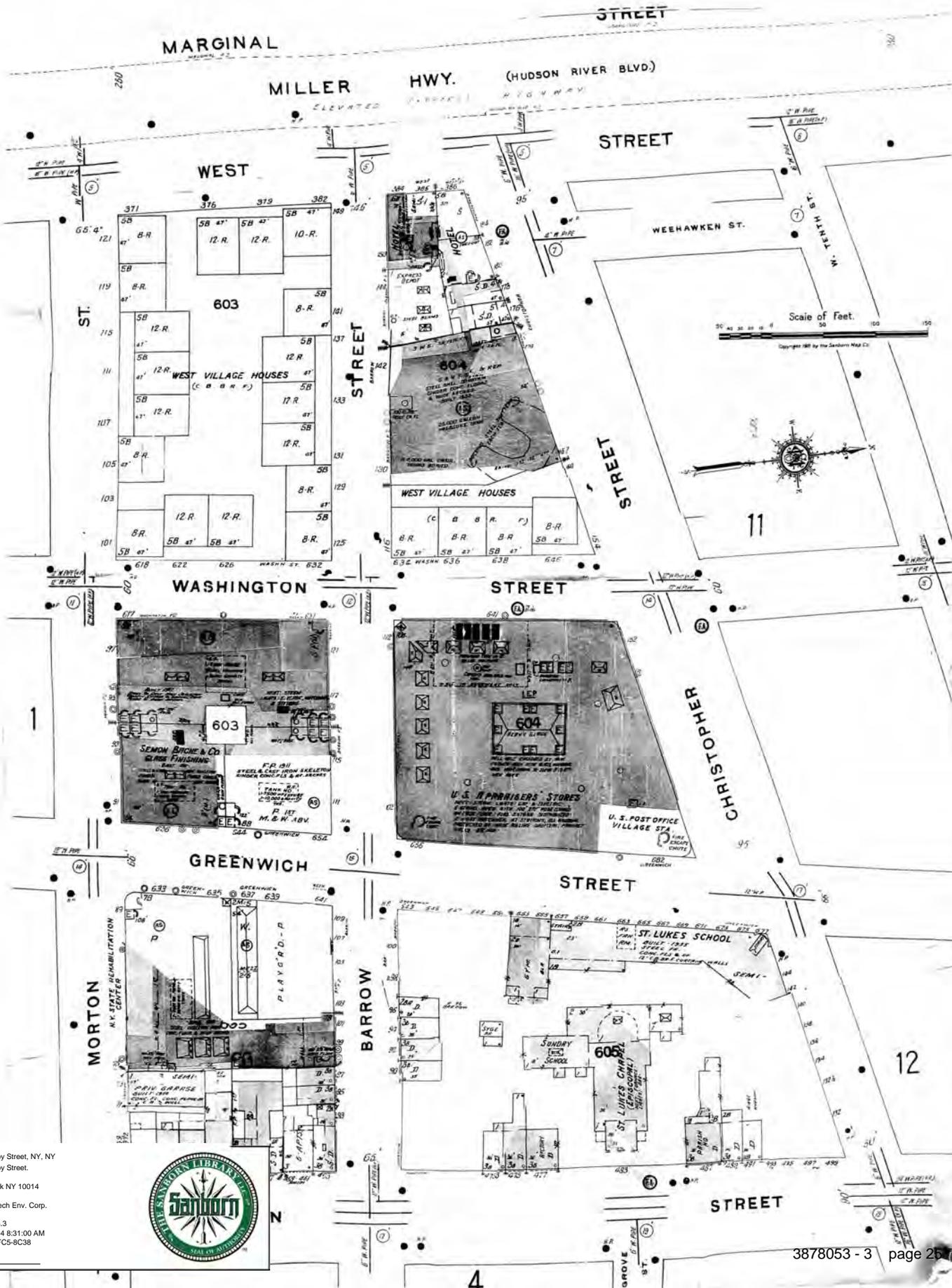


1980 Certified Sanborn Map

HUDSON RIVER

46

(415)
N.Y. City, 1980
2



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Certification # 57AD-4FC5-8C38

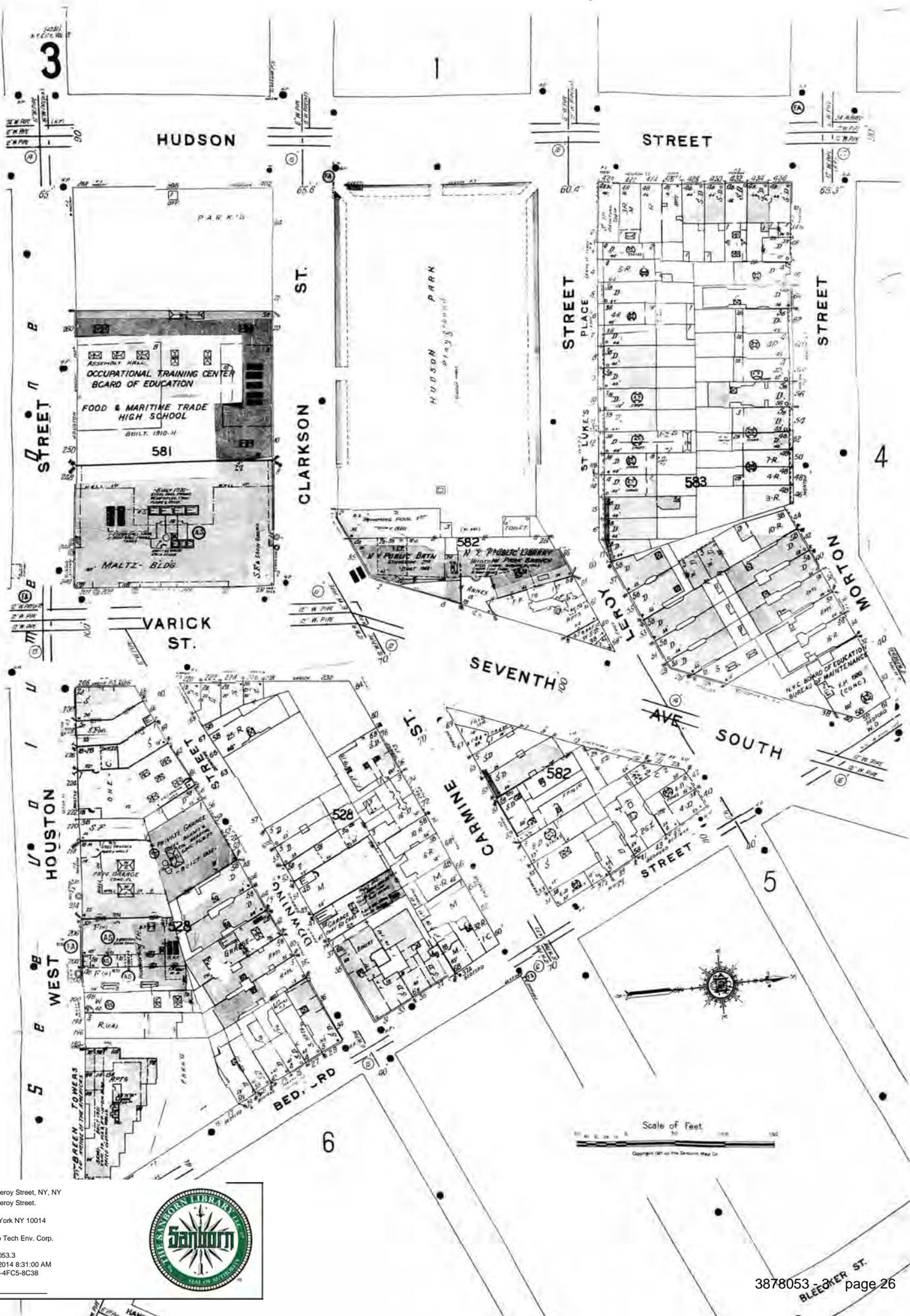
Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street.
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053
 Order Date: 3/12/2014 8:31:00 AM
 Certification # 57AD-4FC5-8C38
 Copyright: 1980



1980 Certified Sanborn Map

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Certification # 57AD-4FC5-8C38



Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053
 Order Date: 3/12/2014 8:31:00 AM
 Certification #: 57AD-4FC5-8C38
 Copyright: 1980



1980 Certified Sanborn Map



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Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053
 Order Date: 3/12/2014 8:31:00 AM
 Certification #: 57AD-4FC5-8C38
 Copyright: 1980



1979 Certified Sanborn Map



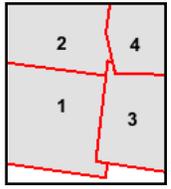
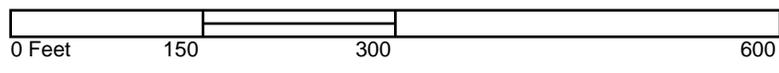
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Office Garage
RAMP
P. P. 1988
(C & B. P.)
Certification #
57AD-4FC5-8C38

Site Name: 111 Leroy Street, NY
Address: 111 Leroy Street,
City, ST, ZIP: New York NY 10014
Client: Hydro Tech Env. Corp.
EDR Inquiry: 3878053.3
Order Date: 3/12/2014 8:31:00 AM
Certification # 57AD-4FC5-8C38



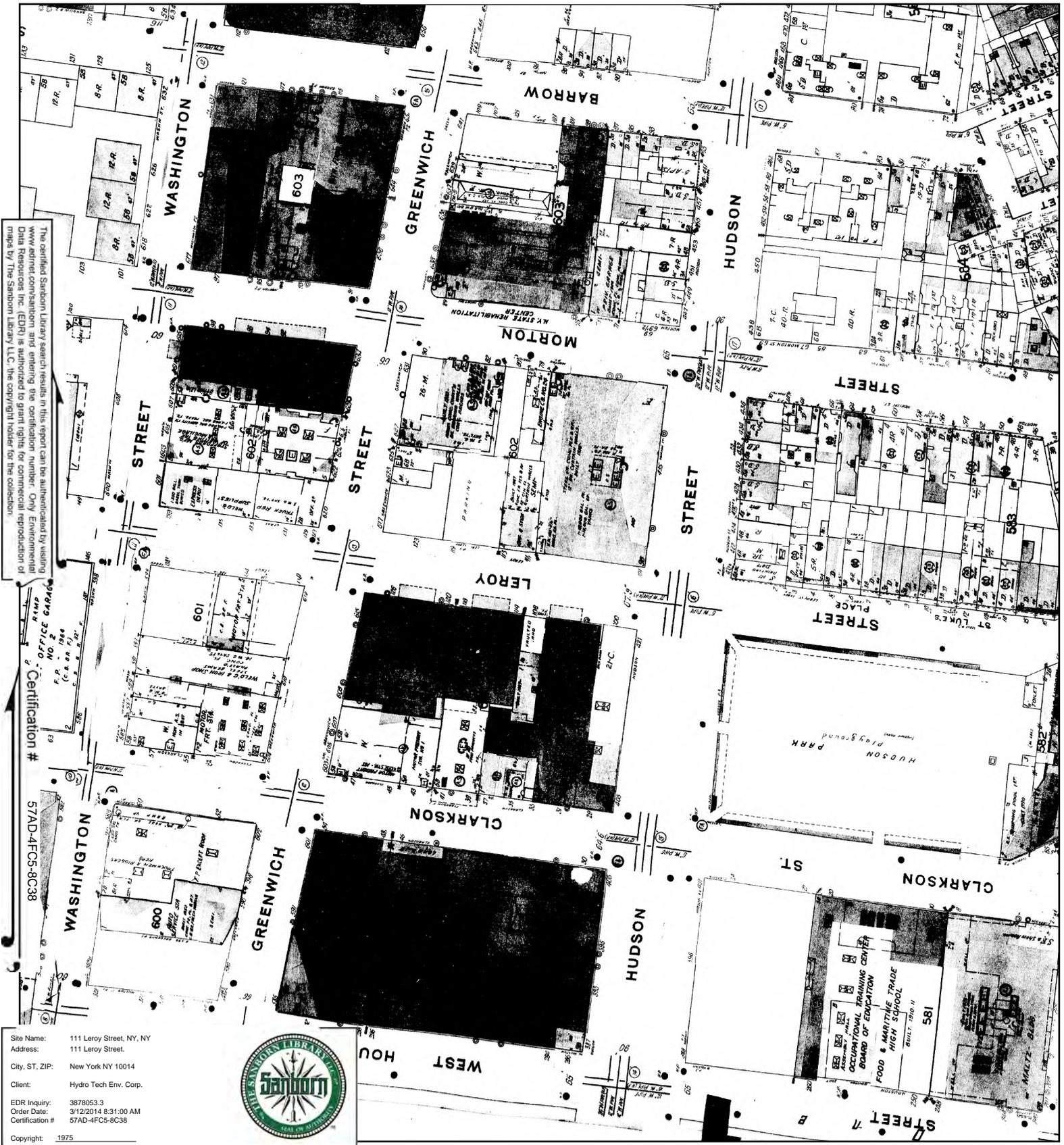
This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



- Volume 3, Sheet 1
- Volume 3, Sheet 2
- Volume 3, Sheet 3
- Volume 3, Sheet 4



1975 Certified Sanborn Map



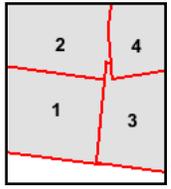
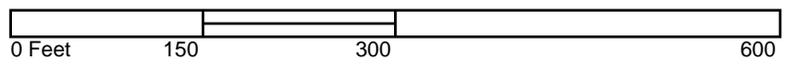
The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources, Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Office Garage
Certification #
57AD-4FC5-8C38

Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street,
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053.3
 Order Date: 3/12/2014 8:31:00 AM
 Certification #: 57AD-4FC5-8C38



This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



- Volume 3, Sheet 1
- Volume 3, Sheet 2
- Volume 3, Sheet 3
- Volume 3, Sheet 4



1969 Certified Sanborn Map



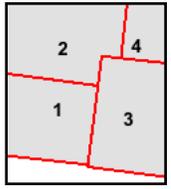
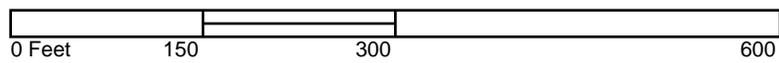
The certified Sanborn Map Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources, Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # 57AD-4FC5-8C38

Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street.
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053.3
 Order Date: 3/12/2014 8:31:00 AM
 Certification #: 57AD-4FC5-8C38



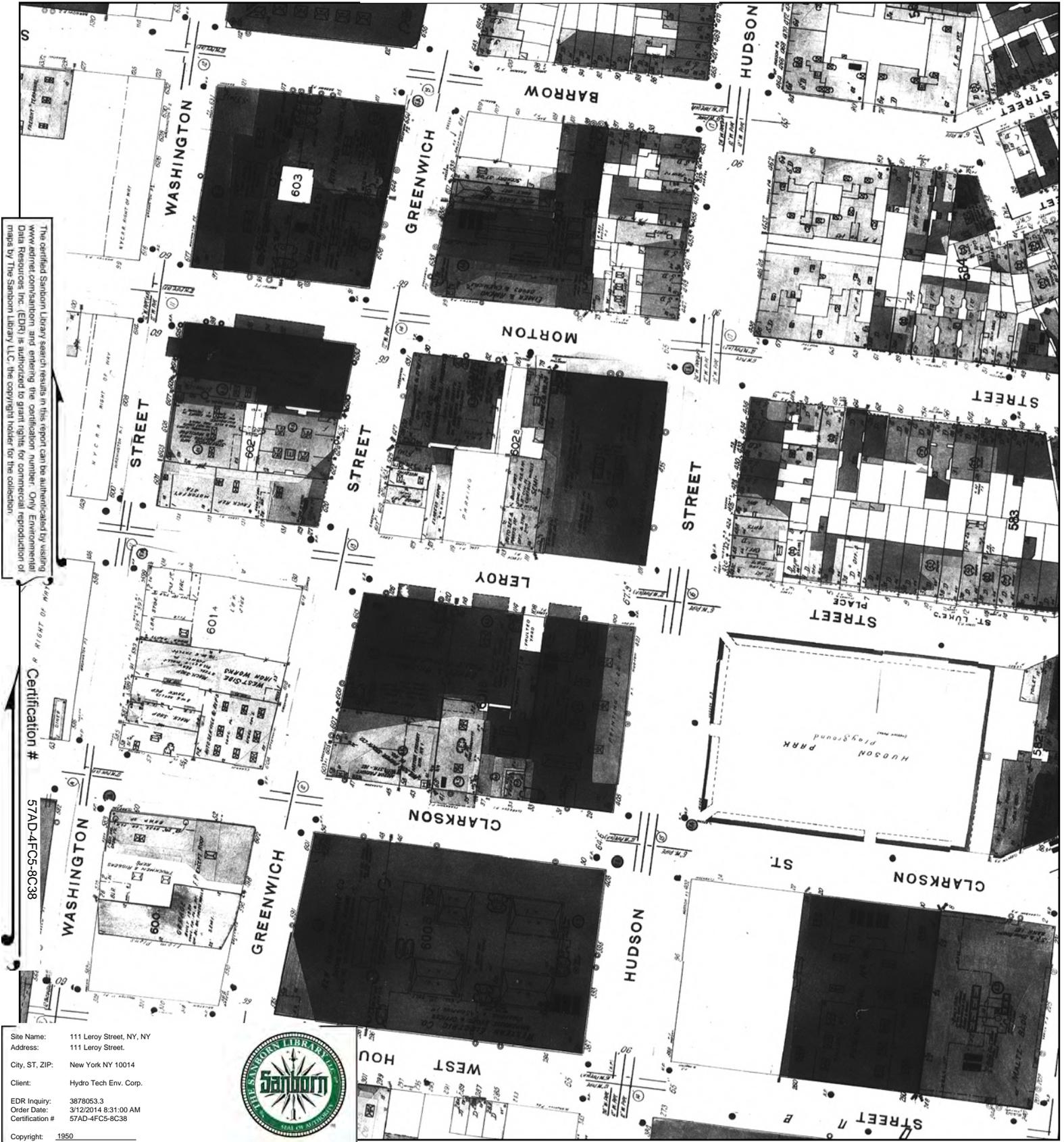
This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



- Volume 3, Sheet 4
- Volume 3, Sheet 1
- Volume 3, Sheet 2
- Volume 3, Sheet 3



1950 Certified Sanborn Map



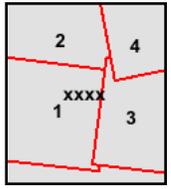
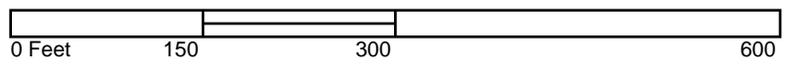
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Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street.
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053.3
 Order Date: 3/12/2014 8:31:00 AM
 Certification #: 57AD-4FC5-8C38
 Copyright: 1950



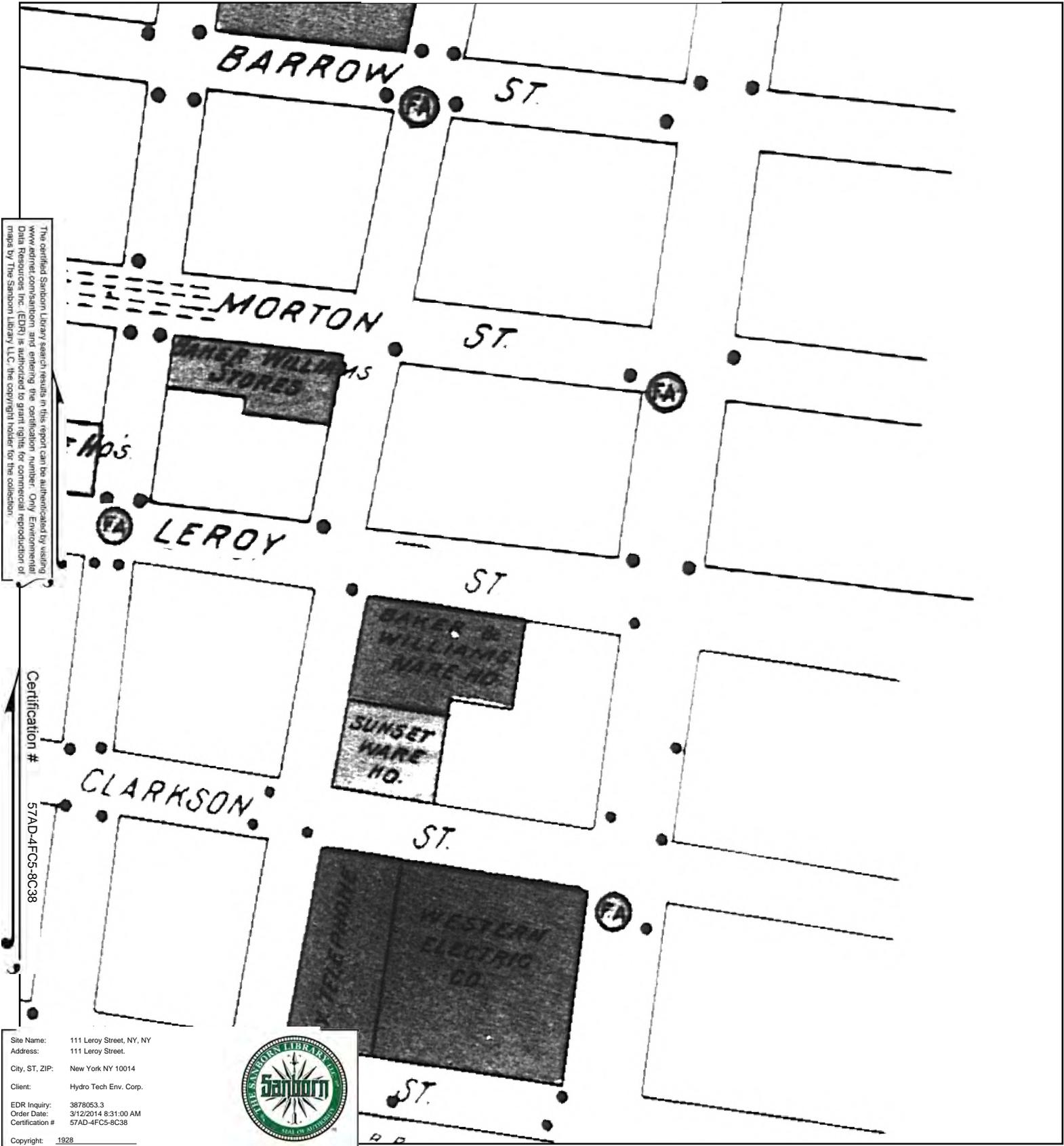
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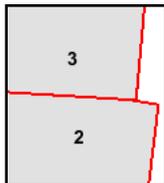
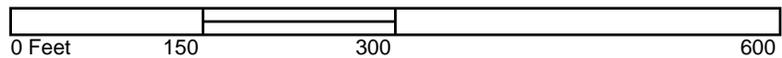
- Volume 3, Sheet xxx
- Volume 3, Sheet 1
- Volume 3, Sheet 2
- Volume 3, Sheet 3
- Volume 3, Sheet 4
- Volume 1S, Sheet xxx
- Volume 2, Sheet xxx



1928 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume Pier Maps, Sheet 2
 Volume Pier Maps, Sheet 3



1921 Certified Sanborn Map



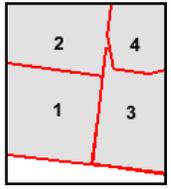
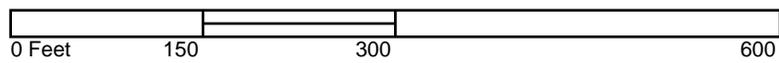
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Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053.3
 Order Date: 3/12/2014 8:31:00 AM
 Certification #: 57AD-4FC5-8C38



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



- Volume 3, Sheet 1
- Volume 3, Sheet 2
- Volume 3, Sheet 3
- Volume 3, Sheet 3
- Volume 3, Sheet 4



1919 Certified Sanborn Map

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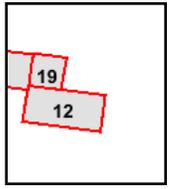
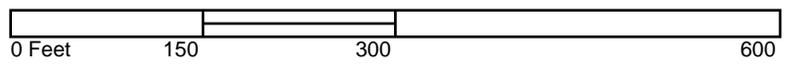
Certification # 57AD-4FC5-8C38



Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053.3
 Order Date: 3/12/2014 8:31:00 AM
 Certification #: 57AD-4FC5-8C38



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume Atlas Maps, Sheet 19
 Volume Atlas Maps, Sheet 12



1904 Certified Sanborn Map



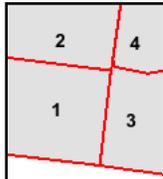
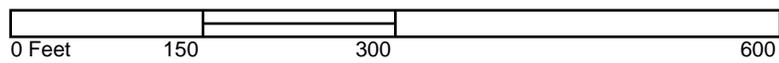
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Certification #
57AD-4FC5-8C38

Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street.
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053.3
 Order Date: 3/12/2014 8:31:00 AM
 Certification #: 57AD-4FC5-8C38



This Certified Sanborn Map combines the following sheets.
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- Volume 3, Sheet 3
- Volume 3, Sheet 4
- Volume 3, Sheet 1
- Volume 3, Sheet 2



1895 Certified Sanborn Map



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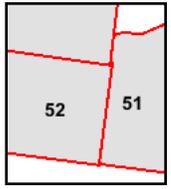
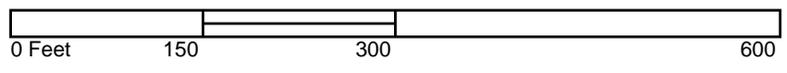
Certification #
57AD-4FC5-8C38

Site Name: 111 Leroy Street, NY, NY
 Address: 111 Leroy Street.
 City, ST, ZIP: New York NY 10014
 Client: Hydro Tech Env. Corp.
 EDR Inquiry: 3878053.3
 Order Date: 3/12/2014 8:31:00 AM
 Certification #: 57AD-4FC5-8C38



Copyright: 1895

This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



Volume 3, Sheet 51
 Volume 3, Sheet 52
 Volume 3, Sheet 52



APPENDIX C
CITY DIRECTORY SEARCH

111 Leroy Street, NY, NY

111 Leroy Street.
New York, NY 10014

Inquiry Number: 3878053.5

March 11, 2014

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 100 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	X	X	X	-
2008	Cole Information Services	X	X	X	-
2006	Hill-Donnelly Information Services	X	X	X	-
2000	Cole Information Services	X	X	X	-
1998	NYNEX Telephone	X	X	X	-
1996	NYNEX	-	-	-	-
1993	NYNEX Telephone	X	X	X	-
1988	NYNEX Telephone	X	X	X	-
1983	New York Telephone	X	X	X	-
1978	New York Telephone	X	X	X	-
1973	New York Telephone	X	X	X	-
1968	New York Telephone	X	X	X	-
1963	New York Telephone	X	-	X	-
1958	New York Telephone	X	-	X	-
1956	New York Telephone	X	-	X	-
1950	New York Telephone	X	-	X	-
1947	New York Telephone	X	-	X	-
1942	New York Telephone	-	-	-	-
1938	New York Telephone	-	-	-	-
1934	R. L. Polk & Co.	-	X	X	-
1931	Manhattan and Bronx Directory Publishing Company Residential Directory	X	X	X	-
1927	New York Telephone	X	X	X	-
1923	R. L. Polk & Co.	-	X	X	-
1920	R. L. Polk & Co.	X	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

111 Leroy Street.
New York, NY 10014

FINDINGS DETAIL

Target Property research detail.

LEROY

111 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1998	RED HOUSE MUSIC	NYNEX Telephone
	RGH ENTERPRISE INC SHOP	NYNEX Telephone
1993	TIME CAPSULES SOUND STAGE	NYNEX Telephone
1988	BOKEN SOUND SERVCES INC	NYNEX Telephone
1983	CLARKE DIV MCGRAW-EDISON CO	New York Telephone
1978	CLARKE DIV CLARKE GRAVERY CORP	New York Telephone
1973	CLARKE FLOOR MACHINE CO	New York Telephone
	LEFCOURT SALES	New York Telephone
1968	DIERCKX JULES EQUIP CORP	New York Telephone
	DIERCKX JULES EQUIP CORPO MATL HNDLG	New York Telephone
	JULES DIERCKX EQUIP CORP MATL HNDLG	New York Telephone
	MERCURY MFG CO INDUSTRL TRUKS	New York Telephone
	SERVEDEX INC MATI HNDIG	New York Telephone
1963	TOWMOTOR CORP	New York Telephone
1958	GERLINGER LIFT TRUCK S	New York Telephone
	MOORE A A DISTRIBTRS	New York Telephone
	MOORE ALBERTUS A B	New York Telephone
	TOWMOTOR CORP	New York Telephone
1956	MOORE A A DISTRIBUTRS	New York Telephone
	MOORE ALBERTUS A B	New York Telephone
	TOWMOTOR CORP	New York Telephone
1950	MOORE A A DISTRIBUTRS	New York Telephone
	MOORE ALBERTUS A B	New York Telephone
	TOWMOTOR CORP	New York Telephone
1947	MOORE A A DISTRIBUTRS	New York Telephone

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1947	MOORE ALBERTUS A B	New York Telephone
	TOWMOTOR CORP	New York Telephone
1927	SANDERS WALTER R	New York Telephone
	WENTWORTH JAS R	New York Telephone
1920	Blass Frank driver	R. L. Polk & Co.
	Cramer Frances wid Jno H	R. L. Polk & Co.
	McCarthy Eliz designer	R. L. Polk & Co.
	McCarthy Josephine designer	R. L. Polk & Co.

LEROY ST

111 LEROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	YENOM	Cole Information Services
2008	RED HOUSE MUSIC INC	Cole Information Services
2006	Omad Records 1 s	Hill-Donnelly Information Services
	Red House Music	Hill-Donnelly Information Services
	RGH Enterprises Inc 25s	Hill-Donnelly Information Services
2000	BRIAN ALES	Cole Information Services
	MICHAEL E KESSLER	Cole Information Services
	RED HOUSE MUSIC	Cole Information Services
	RGH ENTERPRISE INC	Cole Information Services
1983	Clarke Div Mcgraw Edison Co	New York Telephone
1931	Sanders Helen	Manhattan and Bronx Directory Publishing Company Residential Directory
	Sanders Walter S police	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Sanders Walter r	New York Telephone
	Wentworth Jas r	New York Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

LEROY

105 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1927	CAMPBELL ROBT C MOTORS	New York Telephone
1920	Stein Jacob barber supplies	R. L. Polk & Co.
	Lettieri Rocco coal	R. L. Polk & Co.
	Larotonda Jos	R. L. Polk & Co.
	Fuhring Hy G gro	R. L. Polk & Co.
	Denovelles Wm	R. L. Polk & Co.
	Pece Anthony	R. L. Polk & Co.

107 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Drout Jno clk Gwich Bk	R. L. Polk & Co.
	Drout Jennie wid Jno	R. L. Polk & Co.
	Drout M V sec treas Geo A Waggaman Inc	R. L. Polk & Co.
	Stuart Albert G	R. L. Polk & Co.
	Stewart Albert	R. L. Polk & Co.
	Kelly Thos J dock bldr	R. L. Polk & Co.
	Finley Alex insp	R. L. Polk & Co.

109 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Seybolt George L clk PO	R. L. Polk & Co.
	McCollough Harriet wid Saml	R. L. Polk & Co.
	Dunn Jno J eng	R. L. Polk & Co.

110 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1998	SHOOTING GALERY INC	NYNEX Telephone
	NOBART NEW YORK	NYNEX Telephone
	ROYALTON	NYNEX Telephone
1993	NOBART NEW YORK	NYNEX Telephone

FINDINGS

113 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1920	Queream Eug M bkpr Bankers Trust Co h E Orange NJ	R. L. Polk & Co.
	Qurer Jno St Josephs RC Ch	R. L. Polk & Co.
	Queream Chas H supt eiec eqmp NY CRR h White Plains NY	R. L. Polk & Co.
	Qurer Mary clk	R. L. Polk & Co.
	Laffin Margt wid Jas	R. L. Polk & Co.

115 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1993	JUDEE PARKING CORP	NYNEX Telephone
1988	JUDEE PARKING CORP	NYNEX Telephone
1983	JUDEE PARKING CORP	New York Telephone
1978	JUDEE PARKING CORP	New York Telephone
1973	PAULS PARKING SYSTEM	New York Telephone
1968	PAUL S PARKING SYSTM	New York Telephone
1920	Rogers Harry S	R. L. Polk & Co.
	Rogers Harry eng	R. L. Polk & Co.
	McCerick Mary wid Jno	R. L. Polk & Co.
	McCerick Deha teeg opr	R. L. Polk & Co.
	Harnett Jno watchmkr	R. L. Polk & Co.
	Harnett Cath forewmn	R. L. Polk & Co.
	Lilly Mary variety	R. L. Polk & Co.

117 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1923	Connor Michl & Sons Thos A & Edw L Connor cooperage	R. L. Polk & Co.
1920	Ottiwell Wm sec Richd H Thomas Inc h Nutley NJ	R. L. Polk & Co.
	Devoto Geo driver	R. L. Polk & Co.
	Connor Margt F	R. L. Polk & Co.
	Connor Michl & Sons Thos A & Edw L Connor cooperage	R. L. Polk & Co.
	Ottiwell Wm bkpr	R. L. Polk & Co.

117-21 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1973	FLYING MAILMEN SVCE INC	New York Telephone

FINDINGS

118 LEROY

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1934	Noeding Chas Trucking Co Inc NJ Chas Noeding pres Herman Myer sec treas	R. L. Polk & Co.
1920	Gabler F M Inc NY Frank M Gabler pres Bertha M Gabler v p Edw E Wolf sec treas fireproof doors	R. L. Polk & Co.
	Flynn Wm J boxmkr	R. L. Polk & Co.

LEROY ST

105 LEROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	Rubino Antonio	Manhattan and Bronx Directory Publishing Company Residential Directory
	Perrotti Nick	Manhattan and Bronx Directory Publishing Company Residential Directory
	Perrotti John	Manhattan and Bronx Directory Publishing Company Residential Directory
	Laratonda Jos	Manhattan and Bronx Directory Publishing Company Residential Directory
1927	Campbell Robt C motors	New York Telephone

109 LEROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	Devine John	Manhattan and Bronx Directory Publishing Company Residential Directory
	Kuhlmann Eliz	Manhattan and Bronx Directory Publishing Company Residential Directory
	Kuhlmann John	Manhattan and Bronx Directory Publishing Company Residential Directory
	Blackhall Jos	Manhattan and Bronx Directory Publishing Company Residential Directory
	Culhane Alice	Manhattan and Bronx Directory Publishing Company Residential Directory
	Wynn Bert	Manhattan and Bronx Directory Publishing Company Residential Directory
	Mc Cusker Chas H	Manhattan and Bronx Directory Publishing Company Residential Directory
	Mc Cusker Beatrice	Manhattan and Bronx Directory Publishing Company Residential Directory

110 LEROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	RAINBOW DIGITAL SERVICES LLC	Cole Information Services
	EL CANTANTE	Cole Information Services

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	DOUBT PRODUCTIONS	Cole Information Services
	ROYALTON REALTY ASSOCIATES	Cole Information Services
	WETWORK PRODUCTIONS	Cole Information Services
	INNOVEST SYSTEMS LLC	Cole Information Services
	TECHNICOLOR	Cole Information Services
	WORLD CINEVISION	Cole Information Services
	THE BRAVE ONE	Cole Information Services
	MANHATTAN NY 10014 110 LEROY	Cole Information Services
	SATURN MARKETING TECHNOLOGIES	Cole Information Services
	DBOX	Cole Information Services
	BOHEMIAN PRODUCTION INC	Cole Information Services
	NANNY DIARIES	Cole Information Services
	PEGGY PRODUCTIONS	Cole Information Services
2008	THE BRAVE ONE	Cole Information Services
	DBOX INC	Cole Information Services
	TECHNICOLOR CREATIVE SERVICES	Cole Information Services
	UNIVERSAL STUDIOS INC	Cole Information Services
2006	ROYALTON REALTY ASSOCIATES	Cole Information Services
	Multi Unit Address	Hill-Donnelly Information Services
	Comedy Partners Strangers With	Hill-Donnelly Information Services
	East Coast Post	Hill-Donnelly Information Services
	New York Times Television	Hill-Donnelly Information Services
	Orbit Digital LLC Is	Hill-Donnelly Information Services
	Pivotal Post	Hill-Donnelly Information Services
	Royalton Realty Assoc i F	Hill-Donnelly Information Services
	Saturn Marketing I P	Hill-Donnelly Information Services
	Number 2 Technicolor Creative Svc	Hill-Donnelly Information Services
	Technicolor Entertainment Svc	Hill-Donnelly Information Services
World Cinevision I s	Hill-Donnelly Information Services	
2000	TRISTATE TELEPHONE	Cole Information Services
	ISNT SHE GREAT	Cole Information Services
	TRI-STATE TEL	Cole Information Services
	UP YOU PRODUCTIONS	Cole Information Services
	COMEDY PARTNERS	Cole Information Services
	COMEDY PRTNRS CNDY	Cole Information Services
	DEAL KINGS LIC	Cole Information Services
	EAST COAST POST	Cole Information Services
	TRISTATE TELEPHONE	Cole Information Services

FINDINGS

113 LEROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	Quere John	Manhattan and Bronx Directory Publishing Company Residential Directory
	Gibson Eugenia	Manhattan and Bronx Directory Publishing Company Residential Directory
	Flynn Wm	Manhattan and Bronx Directory Publishing Company Residential Directory
	Flynn Margt	Manhattan and Bronx Directory Publishing Company Residential Directory
	Flynn Julie	Manhattan and Bronx Directory Publishing Company Residential Directory
	Hackett Wellington M fireman	Manhattan and Bronx Directory Publishing Company Residential Directory
	Hackett Henry	Manhattan and Bronx Directory Publishing Company Residential Directory
	Quere Mary	Manhattan and Bronx Directory Publishing Company Residential Directory

115 LEROY ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	CALIENTE CAR PARK	Cole Information Services
2008	CALIENTE CAR PARK	Cole Information Services
2006	Caliente Car Park I s o	Hill-Donnelly Information Services
2000	JOLLY PARKING CORP	Cole Information Services
1983	Judee Parking Corp	New York Telephone
1931	Mc Carrick Delia	Manhattan and Bronx Directory Publishing Company Residential Directory
	Calkinsi Marion	Manhattan and Bronx Directory Publishing Company Residential Directory
	Culkins Jos	Manhattan and Bronx Directory Publishing Company Residential Directory
	Calkinsi Gerald	Manhattan and Bronx Directory Publishing Company Residential Directory

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

111 Leroy Street.

Address Not Identified in Research Source

1996, 1942, 1938, 1934, 1923

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched

105 LEROY

105 LEROY ST

107 LEROY

109 LEROY

109 LEROY ST

110 LEROY

110 LEROY ST

110 LEROY ST

113 LEROY

113 LEROY ST

115 LEROY

115 LEROY ST

115 LEROY ST

117 LEROY

117-21 LEROY

118 LEROY

Address Not Identified in Research Source

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1923

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1923, 1920

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1927, 1923, 1920

2013, 2008, 2006, 2000, 1996, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920

2013, 2008, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920

2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1927, 1923, 1920

2013, 2008, 2006, 2000, 1998, 1996, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

2013, 2008, 1998, 1996, 1993, 1988, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1927, 1923, 1920

2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923, 1920

2013, 2008, 2006, 2000, 1998, 1996, 1993, 1988, 1983, 1978, 1973, 1968, 1963, 1958, 1956, 1950, 1947, 1942, 1938, 1934, 1931, 1927, 1923

APPENDIX D
DATABASE SEARCH RESULTS

111 Leroy Street, NY, NY

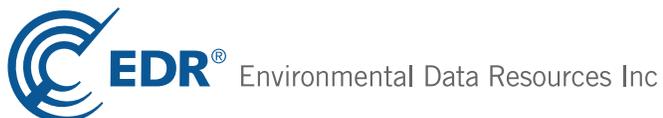
111 Leroy Street.

New York, NY 10014

Inquiry Number: 3878053.2s

March 11, 2014

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
 Please contact EDR at 1-800-352-0050
 with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

111 LEROY STREET.
NEW YORK, NY 10014

COORDINATES

Latitude (North): 40.7303000 - 40° 43' 49.08"
Longitude (West): 74.0074000 - 74° 0' 26.64"
Universal Transverse Mercator: Zone 18
UTM X (Meters): 583821.4
UTM Y (Meters): 4509081.0
Elevation: 14 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 40074-F1 JERSEY CITY, NJ NY
Most Recent Revision: 1981

East Map: 40073-F8 BROOKLYN, NY
Most Recent Revision: 1995

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 2010, 2011
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
111 LEROY STREET 111 LEROY STREET NEW YORK, NY 10014	NY UST	N/A
LOT 83,TAXBLOCK 602 111 LEROY STREET MANHATTAN, NY 10014	NY E DESIGNATION	N/A
111 LEROY ST 111 LEROY ST MANHATTAN, NY	NY LTANKS Spill Number/Closed Date: 0300861 / 5/2/2006 NY Spills Spill Number/Closed Date: 0611866 / Not Reported	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

NJ SHWS..... Known Contaminated Sites in New Jersey
NY VAPOR REOPENED..... Vapor Intrusion Legacy Site List

State and tribal landfill and/or solid waste disposal site lists

NJ SWF/LF..... Solid Waste Facility Directory

State and tribal leaking storage tank lists

NY HIST LTANKS..... Listing of Leaking Storage Tanks
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

NY TANKS.....	Storage Tank Facility Listing
NJ UST.....	Underground Storage Tank Data
NY CBS UST.....	Chemical Bulk Storage Database
NY MOSF UST.....	Major Oil Storage Facilities Database
NY MOSF AST.....	Major Oil Storage Facilities Database
NY MOSF.....	Major Oil Storage Facility Site Listing
INDIAN UST.....	Underground Storage Tanks on Indian Land
FEMA UST.....	Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

NY ENG CONTROLS.....	Registry of Engineering Controls
NJ ENG CONTROLS.....	Declaration Environmental Restriction/Deed Notice Sites
NY INST CONTROL.....	Registry of Institutional Controls
NJ INST CONTROL.....	Classification Exception Area Sites
NY RES DECL.....	Restrictive Declarations Listing

State and tribal voluntary cleanup sites

NY VCP.....	Voluntary Cleanup Agreements
NJ VCP.....	Voluntary Cleanup Program Sites
INDIAN VCP.....	Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

NY ERP.....	Environmental Restoration Program Listing
NJ BROWNFIELDS.....	Brownfields Database

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS.....	A Listing of Brownfields Sites
---------------------	--------------------------------

Local Lists of Landfill / Solid Waste Disposal Sites

ODI.....	Open Dump Inventory
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
NY SWTIRE.....	Registered Waste Tire Storage & Facility List
NJ SWRCY.....	Approved Class B Recycling Facilities
INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL.....	Clandestine Drug Labs
NY DEL SHWS.....	Delisted Registry Sites
US HIST CDL.....	National Clandestine Laboratory Register

Local Land Records

LIENS 2.....	CERCLA Lien Information
--------------	-------------------------

EXECUTIVE SUMMARY

NY LIENS..... Spill Liens Information
NJ LIENS..... Environmental LIENS

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
NY Hist Spills..... SPILLS Database
NY SPILLS 80..... SPILLS 80 data from FirstSearch
NY SPILLS 90..... SPILLS 90 data from FirstSearch
NJ SPILLS 90..... SPILLS 90 data from FirstSearch
NJ SPILLS 80..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System
PADS..... PCB Activity Database System
MLTS..... Material Licensing Tracking System
RAATS..... RCRA Administrative Action Tracking System
RMP..... Risk Management Plans
NY UIC..... Underground Injection Control Wells
NJ UIC..... Underground Injection Wells Database
NJ DRYCLEANERS..... Drycleaner List
NY SPDES..... State Pollutant Discharge Elimination System
NJ NPDES..... New Jersey Pollutant Discharge Elimination System Dischargers
INDIAN RESERV..... Indian Reservations
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
NY COAL ASH..... Coal Ash Disposal Site Listing
NY Financial Assurance..... Financial Assurance Information Listing
COAL ASH DOE..... Steam-Electric Plant Operation Data
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
LEAD SMELTERS..... Lead Smelter Sites
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
NJ COAL ASH..... Coal Ash Listing
US FIN ASSUR..... Financial Assurance Information
NJ Financial Assurance..... Financial Assurance Information Listing
PCB TRANSFORMER..... PCB Transformer Registration Database

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA LF..... Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

NY RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List
 NJ RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List
 NJ RGA LF..... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HUDSON RIVER PCBS</i>	<i>NO STREET APPLICABLE</i>	<i>W 1/8 - 1/4 (0.233 mi.)</i>	<i>0</i>	<i>17</i>

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there are 2 CERCLIS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HUDSON RIVER PCBS</i>	<i>NO STREET APPLICABLE</i>	<i>W 1/8 - 1/4 (0.233 mi.)</i>	<i>0</i>	<i>17</i>
<i>NEW YORK CITY ANTHRAX SITES</i>	<i>31 DOWNING STREET/2 PRI</i>	<i>ESE 1/8 - 1/4 (0.222 mi.)</i>	<i>BQ368</i>	<i>868</i>

EXECUTIVE SUMMARY

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FEDERAL BUILDING / GSA	201 VARICK STREET FLOOR	SSE 1/8 - 1/4 (0.163 mi.)	AM195	460

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 09/10/2013 has revealed that there are 7 RCRA-LQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HUDSON RIVER PCBS	NO STREET APPLICABLE	W 1/8 - 1/4 (0.233 mi.)	0	17
CON EDISON - SERVICE BOX 26182	72 BARROW ST.	NE 1/8 - 1/4 (0.126 mi.)	V124	345
CON EDISON - SERVICE BOX 37381	491 HUDSON ST.	NNE 1/8 - 1/4 (0.169 mi.)	AD210	518
CON EDISON - SERVICE BOX 29913	160 CHRISTOPHER ST.	NNW 1/8 - 1/4 (0.173 mi.)	AP218	542
CON EDISON - SERVICE BOX 29922	135 CHRISTOPHER ST.	N 1/8 - 1/4 (0.189 mi.)	AZ265	623
CON EDISON - SERVICE BOX 36442	26 GROVE ST.	NE 1/8 - 1/4 (0.192 mi.)	AY276	642
VILLAGE CENTER FOR CARE	214 W HOUSTON ST	SE 1/8 - 1/4 (0.205 mi.)	BH319	754

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 09/10/2013 has revealed that there are 8 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NYS OFFICE OF MENTAL RETARDATI	75 MORTON ST	NNE 0 - 1/8 (0.052 mi.)	E29	145
HUDSON KIM'S CLEANERS	462 HUDSON ST	NNE 0 - 1/8 (0.102 mi.)	O79	245
PORT AUTHORITY TRANS-HUDSON CO	135 CHRISTOPHER ST	N 1/8 - 1/4 (0.189 mi.)	AZ264	621
MTA NYCT - PUMP ROOM 2114	205 E HOUSTON ST	SE 1/8 - 1/4 (0.220 mi.)	BH359	855

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TECHNICOLOR EAST COAST INC	110 LEROY ST	SW 0 - 1/8 (0.021 mi.)	A4	45

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ENTERPRISE PRESS	627 GREENWICH STREET	NW 0 - 1/8 (0.047 mi.)	D25	111
UNITED PARCEL SERVICE	325 W HOUSTON ST	SW 0 - 1/8 (0.115 mi.)	T112	307
BLOOMBERG DATA CENTER	340 WEST ST	W 1/8 - 1/4 (0.158 mi.)	AH180	441

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 09/10/2013 has revealed that there are 67 RCRA-CESQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
R S ROSENBAUM & CO INC	435 HUDSON STREET	NE 0 - 1/8 (0.038 mi.)	B14	73
NYC DISTRICT OF CARPENTERS PEN	395 HUDSON ST	SSE 0 - 1/8 (0.076 mi.)	G60	194
CON EDISON MANHOLE: 36951	HOUSTON ST & HUDSON ST	S 0 - 1/8 (0.108 mi.)	R98	282
CON EDISON SERVICE BOX: 36942	299 W HOUSTON ST FRONT	S 0 - 1/8 (0.109 mi.)	R100	284
CON EDISON SERVICE BOX: 36364	645 GREENWICH ST FRONT	N 0 - 1/8 (0.111 mi.)	K104	289
CON EDISON SERVICE BOX: 36943	291 W HOUSTON ST OPPOSI	SSE 0 - 1/8 (0.114 mi.)	R108	293
CON EDISON SERVICE BOX: 36944	287 W HOUSTON ST OPPOSI	SSE 0 - 1/8 (0.117 mi.)	R115	328
CON EDISON SERVICE BOX: 38345	58 LEROY ST FRONT OF	E 1/8 - 1/4 (0.128 mi.)	X128	356
CON EDISON SERVICE BOX: 30214	2-8 CLARKSON ST	ESE 1/8 - 1/4 (0.132 mi.)	Y133	363
CON EDISON SERVICE BOX: 36362	653 GREENWICH ST OPPOSI	N 1/8 - 1/4 (0.132 mi.)	Z136	366
CON EDISON SERVICE BOX: 36365	653 GREENWICH ST FRONT	N 1/8 - 1/4 (0.132 mi.)	Z137	367
CON EDISON	483 HUDSON ST	NNE 1/8 - 1/4 (0.146 mi.)	AD155	404
CON EDISON SERVICE BOX: 49397	VARICK ST & DOWNING ST	SE 1/8 - 1/4 (0.151 mi.)	AC157	406
CON EDISON SERVICE BOX: 37280	103 KING ST FRONT OF	S 1/8 - 1/4 (0.155 mi.)	AG167	419
CON EDISON SERVICE BOX: 37791	116 KING ST OPPOSITE	S 1/8 - 1/4 (0.156 mi.)	AG170	422
CON EDISON SERVICE BOX: 36366	663 GREENWICH ST FRONT	N 1/8 - 1/4 (0.159 mi.)	AI183	445
CON EDISON MANHOLE: 36958	N W HOUSTON ST & VARIC	SE 1/8 - 1/4 (0.161 mi.)	AC190	454
CON EDISON SERVICE BOX: 36965	W HOUSTON ST & VARICK	SE 1/8 - 1/4 (0.161 mi.)	AC191	455
CON EDISON MANHOLE: 28714	74 CARMINE ST FRONT OF	ESE 1/8 - 1/4 (0.163 mi.)	AL193	457
CON EDISON SERVICE BOX: 28711	63 CARMINE ST FRONT OF	ESE 1/8 - 1/4 (0.168 mi.)	AL208	515
CON EDISON SERVICE BOX: 28715	68 CARMINE ST FRONT OF	ESE 1/8 - 1/4 (0.171 mi.)	AL215	538
CON EDISON SERVICE BOX: 29912	162 CHRISTOPHER ST FRON	NNW 1/8 - 1/4 (0.173 mi.)	AN219	543
CON EDISON	492 HUDSON ST	NNE 1/8 - 1/4 (0.173 mi.)	225	560
CON EDISON SERVICE BOX: 29916	157 CHRISTOPHER ST	NNW 1/8 - 1/4 (0.174 mi.)	AP227	561
CON EDISON SERVICE BOX: 36367	671 GREENWICH ST FRONT	N 1/8 - 1/4 (0.179 mi.)	AI241	578
CON EDISON SERVICE BOX: 28712	51 CARMINE ST FRONT OF	E 1/8 - 1/4 (0.181 mi.)	AU245	585
CON EDISON SERVICE BOX: 28717	CARMINE ST & BEDFORD ST	E 1/8 - 1/4 (0.183 mi.)	AU250	600
CON EDISON	135 CHRISTOPHER ST SB 2	N 1/8 - 1/4 (0.189 mi.)	AZ266	624
CON EDISON	16 MORTON ST	ENE 1/8 - 1/4 (0.194 mi.)	AS278	645
CON EDISON MANHOLE: 36978	222 HOUSTON ST FRONT OF	SE 1/8 - 1/4 (0.195 mi.)	AR281	650
CON EDISON SERVICE BOX: 31372	46 DOWNING ST FRONT OF	ESE 1/8 - 1/4 (0.195 mi.)	AT283	652
CON EDISON SERVICE BOX: 47388	183 VARICK ST	SSE 1/8 - 1/4 (0.195 mi.)	BD284	653
CON EDISON SERVICE BOX: 47391	189 VARICK ST FRONT OF	SSE 1/8 - 1/4 (0.196 mi.)	BE290	675
CON EDISON SERVICE BOX: 37806	KING ST & VARICK ST	SSE 1/8 - 1/4 (0.196 mi.)	BE299	717
CON EDISON MANHOLE: 37335	VARICK ST & KING ST SW	SSE 1/8 - 1/4 (0.197 mi.)	BE301	719
CON EDISON MANHOLE: 37796	55 KING ST FRONT OF	SSE 1/8 - 1/4 (0.199 mi.)	BE304	722
CON EDISON SERVICE BOX: 47387	181 VARICK ST	SSE 1/8 - 1/4 (0.203 mi.)	BD310	738
CON EDISON SERVICE BOX: 28727	48 CARMINE ST	E 1/8 - 1/4 (0.203 mi.)	AU311	739
CON EDISON SERVICE BOX: 31381	DOWNING ST & BEDFORD ST	ESE 1/8 - 1/4 (0.208 mi.)	BF329	773

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CON EDISON SERVICE BOX: 28728	42 CARMINE ST	E 1/8 - 1/4 (0.213 mi.)	BK337	786
CON EDISON	30 DOWNING ST	ESE 1/8 - 1/4 (0.214 mi.)	BF339	789
ACME CLEANERS	508 HUDSON ST	NNE 1/8 - 1/4 (0.216 mi.)	BN348	827
CON EDISON SERVICE BOX: 36980	205 W HOUSTON ST FRONT	SE 1/8 - 1/4 (0.220 mi.)	BH360	859
CON EDISON SERVICE BOX: 49136	WASHINGTON ST & 10TH ST	NNW 1/8 - 1/4 (0.221 mi.)	BG364	864
CON EDISON SERVICE BOX: 31377	29 DOWNING ST FRONT OF	ESE 1/8 - 1/4 (0.225 mi.)	BQ377	879
NYU SOM 180 VARICK LABS	180 VARICK ST	SSE 1/8 - 1/4 (0.230 mi.)	BT387	916
CON EDISON SERVICE BOX: 36971	196 W HOUSTON ST FRONT	ESE 1/8 - 1/4 (0.231 mi.)	BU388	947
CON EDISON MANHOLE: 59182	VARICK ST & CHARLTON ST	SSE 1/8 - 1/4 (0.238 mi.)	BT408	985
CON EDISON SERVICE BOX: 26514	BLEEKER & BARROW ST	NE 1/8 - 1/4 (0.241 mi.)	BZ411	990
CON EDISON SERVICE BOX: 26513	BLEEKER & BARROW ST	NE 1/8 - 1/4 (0.241 mi.)	BZ412	991
CON EDISON SERVICE BOX: 47389	171 VARICK ST OPPOSITE	SSE 1/8 - 1/4 (0.242 mi.)	BT414	993
CON EDISON SERVICE BOX: 26524	BLEECKER ST & LEROY ST	E 1/8 - 1/4 (0.245 mi.)	CC425	1030

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CON EDISON SERVICE BOX: 36353	GREENWICH ST & LEROY ST	W 0 - 1/8 (0.042 mi.)	C18	83
TANA WEB INC	627 GREENWICH ST - 1ST	NW 0 - 1/8 (0.047 mi.)	D22	91
CON EDISON MANHOLE: 36342	GREENWICH ST & CLARKSONSW	W 0 - 1/8 (0.070 mi.)	H54	188
CON EDISON SERVICE BOX: 49119	WASHINGTON ST & MORTON	NW 0 - 1/8 (0.098 mi.)	N73	224
CON EDISON SERVICE BOX: 49110	585 WASHINGTON ST FRONT	WSW 0 - 1/8 (0.102 mi.)	L77	243
CON EDISON SERVICE BOX: 38337	158 LEROY ST FRONT OF	W 0 - 1/8 (0.103 mi.)	P82	257
CON EDISON SERVICE BOX: 38336	160 LEROY ST FRONT OF	W 0 - 1/8 (0.106 mi.)	P89	269
CON EDISON SERVICE BOX: 49103	575 WASHINGTON ST OPPOS	SW 0 - 1/8 (0.120 mi.)	U119	334
CON EDISON SERVICE BOX: 38333	LEROY ST & WEST ST	W 1/8 - 1/4 (0.159 mi.)	AH182	444
ONDEO NALCO CO	330 WEST ST	W 1/8 - 1/4 (0.160 mi.)	AH184	446
CON EDISON MANHOLE: 49130	WASHINGTON ST & CHRISTO	NNW 1/8 - 1/4 (0.175 mi.)	AN230	565
CON EDISON SERVICE BOX: 49137	WASHINGTON ST & CHRISTO	NNW 1/8 - 1/4 (0.175 mi.)	AN232	567
CON EDISON SERVICE BOX: 49131	649 WASHINGTON ST OPPOS	NNW 1/8 - 1/4 (0.184 mi.)	AN252	602
CON EDISON SERVICE BOX: 49135	651 WASHINGTON ST FRONT	NNW 1/8 - 1/4 (0.188 mi.)	AP258	611
CON EDISON SERVICE BOX: 1500	535 WASHINGTON ST OPPOS	SSW 1/8 - 1/4 (0.222 mi.)	BR369	870

Federal institutional controls / engineering controls registries

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 12/17/2013 has revealed that there is 1 US ENG CONTROLS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HUDSON RIVER PCBs	NO STREET APPLICABLE	W 1/8 - 1/4 (0.233 mi.)	0	17

US INST CONTROL: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROL list, as provided by EDR, and dated 12/17/2013 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HUDSON RIVER PCBS</i>	<i>NO STREET APPLICABLE</i>	<i>W 1/8 - 1/4 (0.233 mi.)</i>	<i>0</i>	<i>17</i>

State- and tribal - equivalent CERCLIS

NY SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the NY SHWS list, as provided by EDR, and dated 11/13/2013 has revealed that there is 1 NY SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>HUDSON DRY CLEANERS INCORPORAT</i>	<i>462 HUDSON STREET</i>	<i>NNE 0 - 1/8 (0.102 mi.)</i>	<i>O80</i>	<i>250</i>

State and tribal landfill and/or solid waste disposal site lists

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 12/12/2013 has revealed that there is 1 NY SWF/LF site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>BARRETTI CARTING CORP.</i>	<i>509 GREENWICH STREET</i>	<i>SSW 1/4 - 1/2 (0.322 mi.)</i>	<i>CE444</i>	<i>1074</i>

State and tribal leaking storage tank lists

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 02/17/2014 has revealed that there are 52 NY LTANKS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>JANE YOUNG RES.</i> Spill Number/Closed Date: 9512051 / 4/29/2004 Spill Number/Closed Date: 9510397 / 11/20/1995	<i>422 HUDSON STREET</i>	<i>E 0 - 1/8 (0.031 mi.)</i>	<i>B10</i>	<i>65</i>
<i>METRO NYS DDSO TTF</i> Spill Number/Closed Date: 1004849 / 1/26/2012	<i>75 MORTON ST</i>	<i>NNE 0 - 1/8 (0.055 mi.)</i>	<i>E37</i>	<i>158</i>
<i>45 MORTON ST/MANH</i> Spill Number/Closed Date: 9010720 / 5/25/1995	<i>45 MORTON STREET</i>	<i>ENE 0 - 1/8 (0.105 mi.)</i>	<i>Q85</i>	<i>260</i>
<i>22 GROVE ST</i> Spill Number/Closed Date: 9512271 / 1/26/2004	<i>22 GROVE ST</i>	<i>NE 1/8 - 1/4 (0.181 mi.)</i>	<i>AJ246</i>	<i>586</i>

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
690 GREENWICH ST Spill Number/Closed Date: 9210545 / 1/2/2004	690 GREENWICH ST	N 1/8 - 1/4 (0.207 mi.)	AX323	759
APT BUILDING Spill Number/Closed Date: 1008195 / 3/31/2011	98 CHARLTON ST	S 1/8 - 1/4 (0.207 mi.)	BJ324	760
AJ CLARKE MGT Spill Number/Closed Date: 9607652 / 9/18/1996	50 KING STREET	SE 1/8 - 1/4 (0.207 mi.)	BE326	769
50 KING STREET Spill Number/Closed Date: 9212531 / 2/5/1993	50 KING STREET	SE 1/8 - 1/4 (0.209 mi.)	BE331	775
46 CARMINE STREET Spill Number/Closed Date: 9500629 / 4/17/1995	46 CARMINE STREET	E 1/8 - 1/4 (0.209 mi.)	BK332	780
ON SIDEWALK Spill Number/Closed Date: 0408226 / 11/24/2004	7 MORTON STREET	ENE 1/8 - 1/4 (0.216 mi.)	BM347	825
31-45 DOWNING STREET Spill Number/Closed Date: 8804015 / 10/2/1992	31-45 DOWNING STREET	ESE 1/8 - 1/4 (0.222 mi.)	BQ367	867
APT BUILDING Spill Number/Closed Date: 0110105 / 7/29/2003	119 CHRISTOPHER ST	NNE 1/8 - 1/4 (0.226 mi.)	BL380	883
APARTMENT HOUSE Spill Number/Closed Date: 0304065 / 11/9/2005 Spill Number/Closed Date: 9801149 / 3/3/2003	40 GROVE STREET	NE 1/8 - 1/4 (0.234 mi.)	BS394	958
APARTMENT BUILDING Spill Number/Closed Date: 9700593 / 4/14/1997	6 BEDFORD ST	ESE 1/8 - 1/4 (0.236 mi.)	403	974
1633 W. 10TH STREET Spill Number/Closed Date: 9503381 / 2/11/2003	1633 W. 10TH STREET	NNE 1/8 - 1/4 (0.242 mi.)	CA416	995
259 BLEECKER ST Spill Number/Closed Date: 8806990 / 11/29/1988	259 BLEECKER ST	ENE 1/8 - 1/4 (0.248 mi.)	CC429	1034
APARTMENT COMPLEX Spill Number/Closed Date: 0209533 / 11/12/2003	26 CARMINE ST	E 1/8 - 1/4 (0.250 mi.)	CB434	1047
6 PRECINCT NYPD -DDC Spill Number/Closed Date: 9111635 / 1/10/2005 Spill Number/Closed Date: 9212918 / 12/22/2006	233 WEST 10TH STREET	NNE 1/4 - 1/2 (0.269 mi.)	435	1048
LITTLE RED SCHOOL HOUSE Spill Number/Closed Date: 0209396 / 6/30/2006	272 6TH AVENUE	ESE 1/4 - 1/2 (0.276 mi.)	CD436	1053
LITTLE RED SCHOOL HOUSE Spill Number/Closed Date: 0209395 / 7/24/2003	40 CHARLTON STREET	SSE 1/4 - 1/2 (0.280 mi.)	437	1055
FORMER DOVER GARAGE Spill Number/Closed Date: 9807492 / 11/24/1998	534 HUDSON STREET	NNE 1/4 - 1/2 (0.286 mi.)	438	1057
LITTLE RED SCHOOL HOUSE Spill Number/Closed Date: 0706903 / 5/29/2008	272 6TH AVE	ESE 1/4 - 1/2 (0.292 mi.)	CD440	1063
PLYMOUTH MANAGEMENT Spill Number/Closed Date: 1008636 / 4/27/2012	695 WASHINGTON ST	N 1/4 - 1/2 (0.300 mi.)	441	1064
SPILL NUMBER 0112067 Spill Number/Closed Date: 0112067 / 7/22/2002	2 KING ST	SE 1/4 - 1/2 (0.318 mi.)	443	1073
228 WEST 4TH STREET Spill Number/Closed Date: 9710849 / 11/14/2005	228 WEST 4TH STREET	NE 1/4 - 1/2 (0.351 mi.)	447	1077
171 SULLIVAN ST Spill Number/Closed Date: 0009608 / 4/9/2002	171 SULLIVAN ST	ESE 1/4 - 1/2 (0.365 mi.)	448	1079
APARTMENT Spill Number/Closed Date: 0904868 / 5/25/2011	126 MACDOUGAL ST	E 1/4 - 1/2 (0.365 mi.)	449	1082

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SPRING AMERICA Spill Number/Closed Date: 9413221 / 1/4/1995	161 6TH AVENUE	SSE 1/4 - 1/2 (0.365 mi.)	450	1083
ALISON ON DOMINICK ST Spill Number/Closed Date: 9612894 / 1/6/2000	38 DOMINICK ST	S 1/4 - 1/2 (0.371 mi.)	451	1084
96 GROVE ST Spill Number/Closed Date: 0005699 / 9/11/2000	96 GROVE ST	NE 1/4 - 1/2 (0.373 mi.)	453	1088
371 6TH AVE/MANH/ST.JOSEP Spill Number/Closed Date: 8707529 / 11/5/1993 Spill Number/Closed Date: 8705365 / 11/5/1993	371 6TH AVE	ENE 1/4 - 1/2 (0.402 mi.)	454	1090
MOBIL S/S#17-AML Spill Number/Closed Date: 8912181 / 4/9/1990	140-52 6TH AVE	SSE 1/4 - 1/2 (0.407 mi.)	455	1093
APT COMPLEX TTF Spill Number/Closed Date: 1300635 / Not Reported	37 WASHINGTON SQ WEST	E 1/4 - 1/2 (0.413 mi.)	457	1107
APARTMENT BUILDING Spill Number/Closed Date: 0507990 / 9/25/2006	159 PRINCE STREET	SE 1/4 - 1/2 (0.436 mi.)	458	1108
NY UNIVERSITY Spill Number/Closed Date: 0110099 / 5/20/2002	WEST 3RD ST/THOMPSON STE	1/4 - 1/2 (0.464 mi.)	461	1114
ROADWAY/PARKING LOT Spill Number/Closed Date: 0511206 / 1/24/2006	110 BLEECKER ST	ESE 1/4 - 1/2 (0.470 mi.)	464	1128
APT BLDG TTF Spill Number/Closed Date: 0909695 / 2/25/2010	15 ABINGDON SQUARE	NNE 1/4 - 1/2 (0.491 mi.)	467	1132
Lower Elevation	Address	Direction / Distance	Map ID	Page
SPILL NUMBER 9810520 Spill Number/Closed Date: 9810520 / 12/23/1999	130 LEROY STREET	W 0 - 1/8 (0.041 mi.)	C17	82
ENTERPRISE EXPRESS Spill Number/Closed Date: 0109823 / 9/6/2005	627 GREENWICH ST	NW 0 - 1/8 (0.047 mi.)	D23	93
YELLOW FREIGHT SYSTEM INC Spill Number/Closed Date: 9909631 / 7/5/2000	149 LEROY ST	W 0 - 1/8 (0.099 mi.)	I75	234
SPILL NUMBER 0103173 Spill Number/Closed Date: 9702743 / 6/4/1997	560 WASHINGTON ST	SW 1/8 - 1/4 (0.151 mi.)	AE158	407
522 GREENWICH AV/MANH/UPS Spill Number/Closed Date: 9100225 / 2/9/1998	522 GREENWICH AVENUE	SSW 1/4 - 1/2 (0.290 mi.)	439	1061
WB ENTRANCE TO Spill Number/Closed Date: 9815149 / 2/24/2003	HOLLAND TUNNEL	SW 1/4 - 1/2 (0.313 mi.)	442	1072
507-509 GREENWICH STREET Spill Number/Closed Date: 9006678 / 12/3/1999	507-509 GREENWICH STREE	SSW 1/4 - 1/2 (0.327 mi.)	CE445	1075
507-509 GREENWICH ST Spill Number/Closed Date: 9806774 / 9/9/1998	507-509 GREENWICH ST	SSW 1/4 - 1/2 (0.327 mi.)	CE446	1076
MANHATTAN WEST 01 DOS -DDC Spill Number/Closed Date: 0011671 / 2/6/2006 Spill Number/Closed Date: 9804683 / 7/11/2006 Spill Number/Closed Date: 9404493 / 5/30/2007 Spill Number/Closed Date: 9712858 / 3/2/2005	297 WEST STREET	SSW 1/4 - 1/2 (0.408 mi.)	456	1100
C TRUE BLDG CORP Spill Number/Closed Date: 0100787 / 7/14/2003	465 GREENWICH ST	SSW 1/4 - 1/2 (0.454 mi.)	459	1110
HUDSON RIVER PARK Spill Number/Closed Date: 0701262 / 8/1/2007	WEST ST/ WATT ST	SSW 1/4 - 1/2 (0.465 mi.)	CF462	1116

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SUPERIOR PRINTING INK CO INC Spill Number/Closed Date: 0312534 / 2/23/2004	70 BETHUNE ST	N 1/4 - 1/2 (0.467 mi.)	463	1117
FRATELLI BRANCA AND CO Spill Number/Closed Date: 9516292 / 3/19/1996	115 WATT ST	S 1/4 - 1/2 (0.475 mi.)	465	1129
RESIDENTIAL BUILDING - TTF Spill Number/Closed Date: 1102101 / Not Reported	34 WATT STREET	SSE 1/4 - 1/2 (0.482 mi.)	466	1131
HRH CONSTRUCTION CORP Spill Number/Closed Date: 8910872 / 10/21/2003	101 AVENUE OF AMERICAS	SSE 1/4 - 1/2 (0.494 mi.)	468	1133

State and tribal registered storage tank lists

NY UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY UST list, as provided by EDR, and dated 12/30/2013 has revealed that there are 13 NY UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
55 MORTON ST	55 MORTON ST	ENE 0 - 1/8 (0.081 mi.)	J64	203
BEDFORD ST OWNERS CORP	81 BEDFORD STREET	NE 1/8 - 1/4 (0.156 mi.)	AB171	423
FORMER PARKING GARAGE	214-218 WEST HOUSTON ST	SE 1/8 - 1/4 (0.205 mi.)	BH317	748
50 KING STREET	50 KING STREET	SE 1/8 - 1/4 (0.209 mi.)	BE331	775
40 GROVE ST	40 GROVE STREET	NE 1/8 - 1/4 (0.234 mi.)	BS393	954

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ATLAS PAPER STOCK CO.	589 WASHINGTON STREET	WSW 0 - 1/8 (0.095 mi.)	L69	215
WASHINGTON STREET ASSOCAITES,	149 LEROY STREET	W 0 - 1/8 (0.099 mi.)	I74	225
UNITED PARCEL SERVICE	320 WEST HOUSTON STREET	SW 0 - 1/8 (0.115 mi.)	T111	297
PIER 40, HUDSON RIVER PARK	353 WEST STREET	W 1/8 - 1/4 (0.158 mi.)	AH172	426
#1 AUTOTECH GROUP	356 WEST STREET	W 1/8 - 1/4 (0.158 mi.)	AH175	433
350 WEST STREET	350 WEST STREET	W 1/8 - 1/4 (0.158 mi.)	AH177	435
MIDTOWN SOUTH PRECINCT	357 WEST 35TH STREET	W 1/8 - 1/4 (0.173 mi.)	AH224	552
CHRISTOPHER STREET OWNERS CORP	165 CHRISTOPHER STREET	NNW 1/8 - 1/4 (0.179 mi.)	AN242	579

NY AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database.

A review of the NY AST list, as provided by EDR, and dated 12/30/2013 has revealed that there are 98 NY AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PRINTING HOUSE	421 HUDSON STREET	ESE 0 - 1/8 (0.022 mi.)	A7	61
435 HUDSON STREET	435 HUDSON STREET	NE 0 - 1/8 (0.038 mi.)	B13	70
MANHATTAN DEVELOPMENTAL CENTER	75 MORTON STREET	NNE 0 - 1/8 (0.052 mi.)	E31	148
65 MORTON STREET	65 MORTON STREET	NE 0 - 1/8 (0.062 mi.)	E52	183
455 HUDSON STREET	455 HUDSON STREET	NNE 0 - 1/8 (0.073 mi.)	E57	190
NAVISITE INC	395 HUDSON STREET	SSE 0 - 1/8 (0.076 mi.)	G63	201
55 MORTON ST	55 MORTON ST	ENE 0 - 1/8 (0.081 mi.)	J65	205

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY AS SCHOOL HS	16 CLARKSON STREET	SE 0 - 1/8 (0.096 mi.)	70	219
47-49 MORTON STREET	47-49 MORTON STREET	ENE 0 - 1/8 (0.099 mi.)	J76	239
85 BARROW	85 BARROW STREET	NNE 0 - 1/8 (0.107 mi.)	O96	278
40 MORTON STREET	40 MORTON STREET	ENE 0 - 1/8 (0.119 mi.)	Q116	329
CONSOLIDATED EDISON	72 BARROW ST.	NE 1/8 - 1/4 (0.126 mi.)	V123	340
225 VARICK ST/MANH	225 VARICK STREET	ESE 1/8 - 1/4 (0.136 mi.)	Y144	378
RESIDENTIAL BUILDING	71 BARROW ST	NE 1/8 - 1/4 (0.137 mi.)	V146	383
MAGNO HOME INC.	50 COMMERCE ST.	NE 1/8 - 1/4 (0.139 mi.)	AB148	388
MAJOR LEROY LLC	51 LEROY ST	E 1/8 - 1/4 (0.141 mi.)	X151	392
26 7TH AVENUE SOUTH	26 7TH AVENUE SOUTH	E 1/8 - 1/4 (0.143 mi.)	X153	397
2 GROVE ST AKA 482 HUDSON ST	2 GROVE ST	NNE 1/8 - 1/4 (0.154 mi.)	AD160	411
351 E 61 REALTY, LLC D/B/A 76-	76-78 CARMINE STREET	ESE 1/8 - 1/4 (0.160 mi.)	AL188	451
FEDERAL OFFICE BUILDING	201 VARICK STREET	SSE 1/8 - 1/4 (0.163 mi.)	AM194	458
LUSTER FAMILY PARTNERSHIP L.P.	65 CARMINE STREET	ESE 1/8 - 1/4 (0.166 mi.)	AL200	497
63 CARMINE ST	63 CARMINE STREET	ESE 1/8 - 1/4 (0.166 mi.)	AL201	499
91 BEDFORD STREET	91 BEDFORD STREET	NE 1/8 - 1/4 (0.167 mi.)	AK202	501
PUBLIC SCHOOL 3 - MANHATTAN	490 HUDSON STREET	NNE 1/8 - 1/4 (0.168 mi.)	AD206	512
90 BEDFORD STREET	90 BEDFORD ST	NE 1/8 - 1/4 (0.170 mi.)	AK212	530
SAINT VERONICA CHURCH	155 CHRISTOPHER ST	NNW 1/8 - 1/4 (0.174 mi.)	AP229	563
UK. CHRISTOPHER ASSOC,C/O SULZ	159 CHRISTOPHER STREET	NNW 1/8 - 1/4 (0.180 mi.)	AP244	582
22 GROVE ST	22 GROVE ST	NE 1/8 - 1/4 (0.181 mi.)	AJ246	586
350 HUDSON ST	350 HUDSON ST	S 1/8 - 1/4 (0.182 mi.)	AV247	590
39 BEDFORD ST	39 BEDFORD ST	E 1/8 - 1/4 (0.182 mi.)	AU248	594
37A BEDFORD STREET	37A BEDFORD ST	E 1/8 - 1/4 (0.183 mi.)	AU249	598
ETTA WALMAN	51 SEVENTH AVENUE SOUTHE	ENE 1/8 - 1/4 (0.187 mi.)	AS257	608
35 BEDFORD ST	35 BEDFORD ST	ESE 1/8 - 1/4 (0.188 mi.)	AU262	615
RESIDENTIAL BUILDING	104 BEDFORD ST	NNE 1/8 - 1/4 (0.188 mi.)	AY263	618
26 LEROY REALTY CORP	26 LEROY ST	E 1/8 - 1/4 (0.191 mi.)	BA271	633
STAR CORNER CONDO	65 BARROW ST/78 BEDFORD	NE 1/8 - 1/4 (0.192 mi.)	BC275	638
CBS RADIO	345 HUDSON STREET	S 1/8 - 1/4 (0.195 mi.)	AV288	667
52 CARMINE STREET	52 CARMINE STREET	E 1/8 - 1/4 (0.196 mi.)	AU291	676
45 CARMINE ST	45 CARMINE ST	E 1/8 - 1/4 (0.196 mi.)	AU293	681
200 VARICK R	200 VARICK ST	SSE 1/8 - 1/4 (0.196 mi.)	BE295	704
ARNOLD LAITER, INCORPORATED	501 HUDSON ST	NNE 1/8 - 1/4 (0.199 mi.)	AZ305	723
WILLIAM CHESTER TAPLITZ	25 GROVE ST.	NE 1/8 - 1/4 (0.201 mi.)	BC306	726
22 LEROY STREET	22 LEROY STREET	E 1/8 - 1/4 (0.201 mi.)	BA307	728
38 DOWNING STREET	38 DOWNING STREET	ESE 1/8 - 1/4 (0.202 mi.)	BF308	730
185 VARICK STREET	185 VARICK STREET	SSE 1/8 - 1/4 (0.202 mi.)	BD309	734
659 WASHINGTON STREET	659 WASHINGTON STREET	NNW 1/8 - 1/4 (0.204 mi.)	BG314	741
THE LEROY OWNERS CORPORATION	25 LEROY STREET	E 1/8 - 1/4 (0.204 mi.)	BA315	743
FORMER PARKING GARAGE	214-218 WEST HOUSTON ST	SE 1/8 - 1/4 (0.205 mi.)	BH317	748
VILLAGE MANAGEMENT INC.	23 LEROY STREET	E 1/8 - 1/4 (0.207 mi.)	BA322	757
A B ILIBASSI REALTY CO	98 CHARLTON ST	S 1/8 - 1/4 (0.207 mi.)	BJ325	761
WHITEHALL STORAGE(WHITEHALL BU	333 HUDSON STREET	S 1/8 - 1/4 (0.214 mi.)	BJ343	814
125 CHRISTOPHER STREET	125 CHRISTOPHER ST	NNE 1/8 - 1/4 (0.215 mi.)	BL345	819
26 BEDFORD STREET	26 BEDFORD STREET	ESE 1/8 - 1/4 (0.215 mi.)	BF346	822
ANTHONY DELFAVA	10 MORTON ST	ENE 1/8 - 1/4 (0.218 mi.)	BM353	843
MICHAEL BRODY	71 CHARLTON ST	SSE 1/8 - 1/4 (0.219 mi.)	BO354	846
74 CHARLTON ST.	74 CHARLTON STREET	SSE 1/8 - 1/4 (0.219 mi.)	BO355	849
15 LEROY STREET	15 LEROY STREET	E 1/8 - 1/4 (0.219 mi.)	BP356	852
VILLAGE COMMUNITY SCHOOL	272 WEST 10TH STREET	N 1/8 - 1/4 (0.223 mi.)	373	873
35 GROVE ST	35 GROVE ST	NE 1/8 - 1/4 (0.224 mi.)	BS374	875
114 CHRISTOPHER APARTMENT CORP	114 CHRISTOPHER STREET	NNE 1/8 - 1/4 (0.225 mi.)	BL378	880
APARTMENT BUILDING	34 CARMINE STREET	E 1/8 - 1/4 (0.227 mi.)	BK381	885
180 VARICK LLC	180 VARICK STREET	SSE 1/8 - 1/4 (0.227 mi.)	BT383	901
37 KING ST	37 KING ST	SE 1/8 - 1/4 (0.228 mi.)	384	903

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GEORGIAN PRESS BUILDING	175 VARICK STREET	SSE 1/8 - 1/4 (0.230 mi.)	BT386	914
THE SHEPHERD HOUSE	277 WEST 10TH STREET	NNW 1/8 - 1/4 (0.233 mi.)	BV391	949
HUDSON_/WEST 10TH ST	514-518 HUDSON ST	NNE 1/8 - 1/4 (0.235 mi.)	BN397	963
326 HUDSON ST	326 HUDSON ST	S 1/8 - 1/4 (0.236 mi.)	BY399	966
330 HUDSON STREET	330 HUDSON STREET	S 1/8 - 1/4 (0.236 mi.)	BY400	968
42 GROVE STREET	42 GROVE STREET	NE 1/8 - 1/4 (0.237 mi.)	BS404	975
272 BLEECKER ST AKA 1-3 MORTON	272 BLEECKER ST (1-3 MO	ENE 1/8 - 1/4 (0.237 mi.)	BM405	978
SKY MANAGEMENT CORP	113 CHRISTOPHER STREET	NNE 1/8 - 1/4 (0.239 mi.)	BX409	986
110 CHRISTOPHER STREET LLC	110 CHRISTOPHER STREET	NE 1/8 - 1/4 (0.242 mi.)	BX418	997
325 HUDSON ST	325 HUDSON STREET	S 1/8 - 1/4 (0.242 mi.)	BY420	1012
HUDSON MEWS APARTMENT CORP	256 WEST 10 STREET	NNE 1/8 - 1/4 (0.243 mi.)	CA421	1024
WEST VILLAGE ASSOCIATES	26 CARMINE STREET	E 1/8 - 1/4 (0.247 mi.)	CB427	1032
247 WEST REALTY CORP	247 WEST 10 ST	NNE 1/8 - 1/4 (0.248 mi.)	CA430	1035
CONGRESS HOUSE	185 WEST HOUSTON STREET	ESE 1/8 - 1/4 (0.249 mi.)	BU431	1038
OUR LADY OF POMPEI CHURCH	25 CARMINE STREET	E 1/8 - 1/4 (0.249 mi.)	CB432	1040
26 KING ST	26 KING STREET	SE 1/8 - 1/4 (0.249 mi.)	433	1043
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
627 GREENWICH ST LLC	627 GREENWICH STREET	NW 0 - 1/8 (0.047 mi.)	D24	109
95 MORTON ST	95 MORTON STREET	NNW 0 - 1/8 (0.057 mi.)	D41	163
FEDERAL EXPRESS - WTCA	148 LEROY STREET	W 0 - 1/8 (0.090 mi.)	I67	211
WASHINGTON STREET ASSOCAITES,	149 LEROY STREET	W 0 - 1/8 (0.099 mi.)	I74	225
VILLAGE MART, INC.	160 LEROY STREET	W 0 - 1/8 (0.106 mi.)	P88	263
111 BARROW ST	111 BARROW ST	NNW 0 - 1/8 (0.114 mi.)	S109	294
UNITED PARCEL SERVICE	325 W HOUSTON ST	SW 0 - 1/8 (0.115 mi.)	T112	307
ST. JOHN'S CENTER	333 W. HOUSTON STREET	SW 0 - 1/8 (0.124 mi.)	T122	337
MCI D/B/A VERIZON BUSINESS	560 WASHINGTON STREET	SW 1/8 - 1/4 (0.152 mi.)	AE159	409
PIER 40, HUDSON RIVER PARK	PIER 40 @ WEST HOUSTON	W 1/8 - 1/4 (0.158 mi.)	AH173	429
ARCHIVE	641 WASHINGTON ST	NNW 1/8 - 1/4 (0.164 mi.)	AN198	492
PEMBROKE OWNERS	357 WEST 55TH STREET	W 1/8 - 1/4 (0.173 mi.)	AH221	545
357 WEST 115TH STREEET	357 WEST 115TH STREET	W 1/8 - 1/4 (0.173 mi.)	AH222	548
MIDTOWN SOUTH PRECINCT	357 WEST 35TH STREET	W 1/8 - 1/4 (0.173 mi.)	AH224	552
34/36 MORTON STREET	34/36 MORTON STREET	WNW 1/8 - 1/4 (0.176 mi.)	AQ233	568
34-36 MORTON ST	36 MORTON STREET	WNW 1/8 - 1/4 (0.176 mi.)	AQ234	570
3-5 WEEHAWKEN ST	3-5 WEEHAWKEN ST	NNW 1/8 - 1/4 (0.233 mi.)	BW392	951
TENTH REALTY ASSOCIATES LLC	303 W 10TH ST (160 CHAR	NNW 1/8 - 1/4 (0.237 mi.)	BW406	981
537 GREENWICH STREET	537 GREENWICH STREET	SSW 1/8 - 1/4 (0.241 mi.)	410	988

NY CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the NY CBS AST list, as provided by EDR, and dated 01/01/2002 has revealed that there are 2 NY CBS AST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CARMINE REC. CENTER	CLARKSON AND 7TH AVENUE	ESE 1/8 - 1/4 (0.139 mi.)	AC149	391
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNITED PARCEL SERVICE	325 W HOUSTON ST	SW 0 - 1/8 (0.115 mi.)	T112	307

EXECUTIVE SUMMARY

NY CBS: These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

A review of the NY CBS list, as provided by EDR, and dated 12/30/2013 has revealed that there are 2 NY CBS sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CARMINE REC. CENTER	1 CLARKSON ST.	ESE 1/8 - 1/4 (0.130 mi.)	Y129	357
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
UNITED PARCEL SERVICE	325 W HOUSTON ST	SW 0 - 1/8 (0.115 mi.)	T112	307

State and tribal Brownfields sites

NY BROWNFIELDS: Brownfields Site List

A review of the NY BROWNFIELDS list, as provided by EDR, and dated 11/13/2013 has revealed that there are 3 NY BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LOT 87, TAXBLOCK 594	261 HUDSON STREET	S 1/4 - 1/2 (0.372 mi.)	452	1085
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WEST & WATTS DEVELOPMENT SUPERIOR PRINTING INK CO INC	281 WEST STREET AND 456 70 BETHUNE ST	SSW 1/4 - 1/2 (0.461 mi.) N 1/4 - 1/2 (0.467 mi.)	CF460 463	1112 1117

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

Registered Recycling Facility List from the Department of Environmental Conservation.

A review of the NY SWRCY list, as provided by EDR, and dated 12/12/2013 has revealed that there is 1 NY SWRCY site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ATLAS PAPER STOCK CO.	589 WASHINGTON STREET	WSW 0 - 1/8 (0.095 mi.)	L69	215

Local Lists of Registered Storage Tanks

NY HIST UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the NY HIST UST list, as provided by EDR, and dated 01/01/2002 has revealed that there

EXECUTIVE SUMMARY

are 7 NY HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
55 MORTON ST	55 MORTON ST	ENE 0 - 1/8 (0.081 mi.)	J65	205
MAJOR LEROY LLC	51 LEROY ST	E 1/8 - 1/4 (0.141 mi.)	X151	392
BEDFORD ST OWNERS CORP	81 BEDFORD STREET	NE 1/8 - 1/4 (0.156 mi.)	AB171	423
BELL ATLANTIC	84 KING STREET	SSE 1/8 - 1/4 (0.167 mi.)	AO203	505
50 KING STREET	50 KING STREET	SE 1/8 - 1/4 (0.209 mi.)	BE331	775
40 GROVE ST	40 GROVE STREET	NE 1/8 - 1/4 (0.234 mi.)	BS393	954
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PIER 40, HUDSON RIVER PARK	PIER 40 @ WEST HOUSTON	W 1/8 - 1/4 (0.158 mi.)	AH173	429

Records of Emergency Release Reports

NY Spills: Data collected on spills reported to NYSDEC. is required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

A review of the NY Spills list, as provided by EDR, and dated 11/19/2013 has revealed that there are 29 NY Spills sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
421 HUDSON AT LEROY ST Spill Number/Closed Date: 9403024 / 6/1/1994	421 HUDSON AT LEROY ST	ESE 0 - 1/8 (0.022 mi.)	A6	60
BASEMENT Spill Number/Closed Date: 0811582 / 1/22/2009	421 HUDSON ST APT 406	ESE 0 - 1/8 (0.022 mi.)	A8	63
JANE YOUNG RES. Spill Number/Closed Date: 9414653 / 2/7/1995	422 HUDSON STREET	E 0 - 1/8 (0.031 mi.)	B10	65
CEMENT FLOOR - BASEMENT Spill Number/Closed Date: 1111652 / 8/2/2012	421 HUDSON STREET	S 0 - 1/8 (0.032 mi.)	11	68
THE RECTOR CHURCH Spill Number/Closed Date: 8908473 / 11/28/1989	435 HUDSON ST	NE 0 - 1/8 (0.039 mi.)	B15	79
COMMERCIAL PROPERTY Spill Number/Closed Date: 0904573 / 8/24/2009 Spill Number/Closed Date: 0001092 / 7/9/2007	78 MORTON ST	NNE 0 - 1/8 (0.052 mi.)	E28	143
LERROY ST/HUDSON ST Spill Number/Closed Date: 9513627 / 1/27/1996	LERROY ST BY HUDSON ST	E 0 - 1/8 (0.053 mi.)	B34	155
STREET Spill Number/Closed Date: 0805282 / 8/7/2008	HUDSON ST/ MORTON ST	NE 0 - 1/8 (0.056 mi.)	E39	160
MANHOLE 37363 Spill Number/Closed Date: 9907124 / 2/3/2004	MORTON & HUDSON ST	NE 0 - 1/8 (0.056 mi.)	E40	161
DEP PARKING LOT Spill Number/Closed Date: 0411381 / 3/25/2010	388 HUDSON ST	SSE 0 - 1/8 (0.060 mi.)	G49	179
CLARKSON AND WEST HOUSTON Spill Number/Closed Date: 0507343 / 9/19/2005	396 HUDSON STREET	SSE 0 - 1/8 (0.065 mi.)	G53	187
MANHOLE 36357 Spill Number/Closed Date: 0000231 / 3/15/2004	MORTON ST & GREENICH ST	NNW 0 - 1/8 (0.093 mi.)	K68	213
45 MORTON ST/MANH Spill Number/Closed Date: 9010342 / 12/24/1990	45 MORTON STREET	ENE 0 - 1/8 (0.105 mi.)	Q85	260

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SIX GAL XFMR OIL IN VS #3308 Spill Number/Closed Date: 0701303 / 3/20/2008	366 HUDSON STREET	S 0 - 1/8 (0.107 mi.)	R92	273
BETWEEN CLARKSON Spill Number/Closed Date: 0603221 / 6/23/2006	HUDSON ST/WEST HOUSTONS	S 0 - 1/8 (0.107 mi.)	R93	274
SHAFT #28B Spill Number/Closed Date: 0610178 / 12/11/2006	HOUSTON STREET/HUDSON	S 0 - 1/8 (0.107 mi.)	R94	275
MANHOLE #36950 Spill Number/Closed Date: 0507497 / 5/3/2007	HOUSTON STREET AT HUDSON	S 0 - 1/8 (0.107 mi.)	R95	276
VAULT #5902 Spill Number/Closed Date: 0510409 / 5/3/2007	100 KING STREET AT HUDSON	S 0 - 1/8 (0.124 mi.)	R121	336

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
609 GREENWICH ST Spill Number/Closed Date: 0600251 / 4/10/2006	609 GREENWICH ST	WSW 0 - 1/8 (0.038 mi.)	12	69
SPILL NUMBER 0004935 Spill Number/Closed Date: 0004935 / 7/25/2000	129 LEROY ST	W 0 - 1/8 (0.041 mi.)	C16	80
DRUM RUN Spill Number/Closed Date: 0800654 / 4/30/2008	CLARKSON ST	SSW 0 - 1/8 (0.053 mi.)	F33	154
95 MORTON ST Spill Number/Closed Date: 0008965 / 10/30/2008	95 MORTON ST	NNW 0 - 1/8 (0.056 mi.)	D38	159
95 MORTON ASSOCIATES, LLC Spill Number/Closed Date: 0412401 / 2/22/2005	95 MORTON STREET	NNW 0 - 1/8 (0.057 mi.)	D44	171
95 MORTON STREET Spill Number/Closed Date: 0009071 / 4/4/2001 Spill Number/Closed Date: 8806754 / 12/15/1988	95 MORTON STREET	NNW 0 - 1/8 (0.057 mi.)	D46	175
MANHOLE 36357 Spill Number/Closed Date: 0002074 / 3/24/2004	GREENWICH ST/MORTON ST	NNW 0 - 1/8 (0.061 mi.)	D50	181
SPILL NUMBER 0007948 Spill Number/Closed Date: 0007948 / 12/14/2001	MORTON ST & GREENWICH	SNNW 0 - 1/8 (0.061 mi.)	D51	182
YELLOW FREIGHT SYSTEM INC Spill Number/Closed Date: 0001838 / 1/12/2001	149 LEROY ST	W 0 - 1/8 (0.099 mi.)	I75	234
CLARKSON ST/WASHINGTON ST Spill Number/Closed Date: 9610088 / 11/13/1996	CLARKSON ST/WASHINGTON	WSW 0 - 1/8 (0.104 mi.)	L84	259
DEE MANAGEMENT Spill Number/Closed Date: 9510480 / 11/20/1995	111 BARROW ST	NNW 0 - 1/8 (0.115 mi.)	S110	296

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/10/2013 has revealed that

EXECUTIVE SUMMARY

there are 48 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>TIMOTHY DUFFY CO</i>	<i>447 HUDSON ST</i>	<i>NE 0 - 1/8 (0.058 mi.)</i>	<i>E48</i>	<i>177</i>
<i>LUCENT TECHNOLOGIES INC</i>	<i>395 HUDSON ST</i>	<i>SSE 0 - 1/8 (0.076 mi.)</i>	<i>G61</i>	<i>196</i>
<i>CON ED - V 4355</i>	<i>366 HUDSON ST</i>	<i>S 0 - 1/8 (0.106 mi.)</i>	<i>R90</i>	<i>270</i>
<i>NYC PUBLIC LIBRARY - HUDSON PA V1289</i>	<i>66 LEROY ST</i>	<i>E 0 - 1/8 (0.111 mi.)</i>	<i>M103</i>	<i>287</i>
<i>CLIPPER DIAMOND TOOL CO INC</i>	<i>284 W HOUSTON STREET</i>	<i>SSE 0 - 1/8 (0.117 mi.)</i>	<i>113</i>	<i>326</i>
<i>CORP PRINTING CO INC-225 VARIC</i>	<i>225 VARICK ST 3RD FLOOR</i>	<i>ESE 1/8 - 1/4 (0.136 mi.)</i>	<i>Y141</i>	<i>371</i>
<i>MEDICONE</i>	<i>225 VARICK ST - 12TH FL</i>	<i>ESE 1/8 - 1/4 (0.136 mi.)</i>	<i>Y142</i>	<i>373</i>
<i>MERRILL CORP</i>	<i>225 VARICK ST - 11TH FL</i>	<i>ESE 1/8 - 1/4 (0.136 mi.)</i>	<i>Y143</i>	<i>377</i>
<i>CON EDISION - VO4967</i>	<i>225 VARICK ST 8TH FLOOR</i>	<i>ESE 1/8 - 1/4 (0.136 mi.)</i>	<i>Y145</i>	<i>382</i>
<i>CON EDISON MANHOLE 37336</i>	<i>221 VARICK ST 221 VARIC</i>	<i>SE 1/8 - 1/4 (0.138 mi.)</i>	<i>Y147</i>	<i>387</i>
<i>FEDERAL BUILDING / GSA</i>	<i>HUDSON ST & KING ST W S</i>	<i>S 1/8 - 1/4 (0.155 mi.)</i>	<i>AG168</i>	<i>420</i>
<i>NEW YORK TELEPHONE</i>	<i>201 VARICK STREET FLOOR</i>	<i>SSE 1/8 - 1/4 (0.163 mi.)</i>	<i>AM195</i>	<i>460</i>
<i>NYC BD OF ED - PUBLIC SCHOOL 3</i>	<i>84 KING ST</i>	<i>SSE 1/8 - 1/4 (0.167 mi.)</i>	<i>AO204</i>	<i>507</i>
<i>NEW ARCHIVE CLEANERS</i>	<i>490 HUDSON ST</i>	<i>NNE 1/8 - 1/4 (0.168 mi.)</i>	<i>AD205</i>	<i>509</i>
<i>CON EDISON MANHOLE 28725</i>	<i>670 GREENWICH ST</i>	<i>N 1/8 - 1/4 (0.170 mi.)</i>	<i>AI211</i>	<i>520</i>
<i>NEW ARCHIVE CLEANERS</i>	<i>BEDFORD ST & CARMINE ST</i>	<i>E 1/8 - 1/4 (0.184 mi.)</i>	<i>AU254</i>	<i>604</i>
<i>PORT AUTH TRANS HUDSON CO SUB</i>	<i>666 GREENWICH ST</i>	<i>N 1/8 - 1/4 (0.188 mi.)</i>	<i>AX261</i>	<i>613</i>
<i>BOWNE BUSINESS COMMUNICATIONS</i>	<i>SUB 1 CHRISTOPHER GREENN</i>	<i>1/8 - 1/4 (0.190 mi.)</i>	<i>AZ270</i>	<i>629</i>
<i>BOWNE OF NEW YORK CITY INC</i>	<i>345 HUDSON ST 3RD FL</i>	<i>S 1/8 - 1/4 (0.195 mi.)</i>	<i>AV285</i>	<i>654</i>
<i>PARISH OF TRINITY CHURCH</i>	<i>345 HUDSON ST - 10TH FL</i>	<i>S 1/8 - 1/4 (0.195 mi.)</i>	<i>AV286</i>	<i>655</i>
<i>NEWMARK & CO REAL ESTATE</i>	<i>345 HUDSON ST</i>	<i>S 1/8 - 1/4 (0.195 mi.)</i>	<i>AV287</i>	<i>660</i>
<i>COX & COMPANY INC - 200 VARICK</i>	<i>200 VARICK ST 1ST FLOOR</i>	<i>SSE 1/8 - 1/4 (0.196 mi.)</i>	<i>BE294</i>	<i>683</i>
<i>XPLUSC</i>	<i>200 VARICK STREET 4TH F</i>	<i>SSE 1/8 - 1/4 (0.196 mi.)</i>	<i>BE296</i>	<i>706</i>
<i>PERFECT FINISHING CO</i>	<i>200 VARICK ST 6TH FLOOR</i>	<i>SSE 1/8 - 1/4 (0.196 mi.)</i>	<i>BE297</i>	<i>708</i>
<i>NYC DEP</i>	<i>200 VARICK ST</i>	<i>SSE 1/8 - 1/4 (0.196 mi.)</i>	<i>BE298</i>	<i>714</i>
<i>V4222</i>	<i>91 CHARLTON ST</i>	<i>S 1/8 - 1/4 (0.205 mi.)</i>	<i>AV316</i>	<i>747</i>
<i>GREENSPAN & KUSHLIN ENGRAVING</i>	<i>183 VARICK STREET</i>	<i>SSE 1/8 - 1/4 (0.208 mi.)</i>	<i>BE327</i>	<i>770</i>
<i>GERSON OFFSET LITHOGRAPHY INC</i>	<i>333 FAIRCHILD AVE</i>	<i>S 1/8 - 1/4 (0.214 mi.)</i>	<i>BJ340</i>	<i>790</i>
<i>LYNN ART</i>	<i>333 HUDSON ST 2ND FLR</i>	<i>S 1/8 - 1/4 (0.214 mi.)</i>	<i>BJ341</i>	<i>811</i>
<i>CON ED - V 2928</i>	<i>333 HUDSON ST - 8TH FLO</i>	<i>S 1/8 - 1/4 (0.214 mi.)</i>	<i>BJ342</i>	<i>812</i>
<i>DOVER AUTO BODY</i>	<i>209 W HOUSTON ST</i>	<i>SE 1/8 - 1/4 (0.215 mi.)</i>	<i>BH344</i>	<i>816</i>
<i>ELITE ENGRAVING LTD</i>	<i>296 W 10TH ST</i>	<i>NNW 1/8 - 1/4 (0.220 mi.)</i>	<i>BG362</i>	<i>861</i>
<i>CON EDISON</i>	<i>175 VARICK ST</i>	<i>SSE 1/8 - 1/4 (0.230 mi.)</i>	<i>BT385</i>	<i>908</i>
<i>TRINITY REAL ESTATE</i>	<i>250 BLEEKER ST</i>	<i>E 1/8 - 1/4 (0.235 mi.)</i>	<i>BP395</i>	<i>960</i>
<i>HUDSON TELECOM CENTER LLC</i>	<i>330 HUDSON ST</i>	<i>S 1/8 - 1/4 (0.236 mi.)</i>	<i>BY401</i>	<i>971</i>
<i>BRIDGE LITHO CO INC</i>	<i>325 HUDSON ST</i>	<i>S 1/8 - 1/4 (0.242 mi.)</i>	<i>BY419</i>	<i>999</i>
<i>CON EDISON</i>	<i>170 VARICK ST</i>	<i>SSE 1/8 - 1/4 (0.244 mi.)</i>	<i>BT424</i>	<i>1029</i>
	<i>BLEECKER ST & LEROY ST</i>	<i>E 1/8 - 1/4 (0.245 mi.)</i>	<i>CC426</i>	<i>1031</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>FINISH RESOURCE</i>	<i>95 MORTON ST 7TH FLOOR</i>	<i>NNW 0 - 1/8 (0.057 mi.)</i>	<i>D42</i>	<i>165</i>
<i>EAGLE ENVELOPE CO</i>	<i>95 MORTON ST FLOOR 2</i>	<i>NNW 0 - 1/8 (0.057 mi.)</i>	<i>D43</i>	<i>168</i>
<i>MAGIC NOVELTY CO INC</i>	<i>95 MORTON ST</i>	<i>NNW 0 - 1/8 (0.057 mi.)</i>	<i>D45</i>	<i>173</i>
<i>FEDERAL EXPRESS CORP</i>	<i>148 LEROY ST</i>	<i>W 0 - 1/8 (0.090 mi.)</i>	<i>I66</i>	<i>208</i>
<i>YELLOW FREIGHT SYSTEM INC</i>	<i>149 LEROY ST</i>	<i>W 0 - 1/8 (0.099 mi.)</i>	<i>I75</i>	<i>234</i>
<i>QUAD GRAPHICS</i>	<i>375 HUDSON ST - NE COR</i>	<i>SSW 1/8 - 1/4 (0.127 mi.)</i>	<i>W125</i>	<i>347</i>
<i>TISHMAN SPEYER PROPERTIES</i>	<i>375 HUDSON ST</i>	<i>SSW 1/8 - 1/4 (0.127 mi.)</i>	<i>W126</i>	<i>353</i>
<i>MERRILL LYNCH & CO</i>	<i>570 WASHINGTON ST</i>	<i>SW 1/8 - 1/4 (0.131 mi.)</i>	<i>U131</i>	<i>359</i>
<i>PIER 40 OPERATING LLC</i>	<i>WEST & W HOUSTON ST</i>	<i>WSW 1/8 - 1/4 (0.184 mi.)</i>	<i>AW255</i>	<i>605</i>
<i>CON EDISION - MH 51736</i>	<i>WEST & HOUSTON ST. WEST</i>	<i>WSW 1/8 - 1/4 (0.191 mi.)</i>	<i>AW273</i>	<i>636</i>

EXECUTIVE SUMMARY

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, and dated 12/31/2013 has revealed that there is 1 CONSENT site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HUDSON RIVER PCBs	NO STREET APPLICABLE	W 1/8 - 1/4 (0.233 mi.)	0	17

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HUDSON RIVER PCBs	NO STREET APPLICABLE	W 1/8 - 1/4 (0.233 mi.)	0	17

NY HSWDS: The List includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The latest version of the study is frozen in time. The sites on the study will not automatically be made superfund sites, rather each site will be further evaluated for listing in the registry. So overtime they will be added to the registry or not.

A review of the NY HSWDS list, as provided by EDR, and dated 01/01/2003 has revealed that there is 1 NY HSWDS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GSA BUILDING SITE	201 VARICK ST	SSE 1/8 - 1/4 (0.163 mi.)	AM196	465

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 11/01/2013 has revealed that there are 128 NY MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
R S ROSENBAUM & CO INC	435 HUDSON STREET	NE 0 - 1/8 (0.038 mi.)	B14	73
NYS OFFICE OF MR&DD METRO NY D	75 MORTON ST	NNE 0 - 1/8 (0.052 mi.)	E30	147
NYC DISTRICT OF CARPENTERS PEN	395 HUDSON ST	SSE 0 - 1/8 (0.076 mi.)	G62	198
CON EDISON	14 ST LUKES PL	E 0 - 1/8 (0.097 mi.)	M71	222
HUDSON DRY CLEANERS INCORPORAT	462 HUDSON STREET	NNE 0 - 1/8 (0.102 mi.)	O80	250
CON ED - V 4355	366 HUDSON ST	S 0 - 1/8 (0.106 mi.)	R90	270
CON EDISON	366 HUDSON ST	S 0 - 1/8 (0.106 mi.)	R91	272
CON EDISON	NW HOUSTON ST & HUDSON	S 0 - 1/8 (0.108 mi.)	R97	281
CON EDISON	17 ST LUKES PL	E 0 - 1/8 (0.109 mi.)	M99	283
CON EDISON	299 W HOUSTON ST	S 0 - 1/8 (0.109 mi.)	R101	285
CON EDISON	645 GREENWHICH ST	N 0 - 1/8 (0.109 mi.)	K102	286

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NYC PUBLIC LIBRARY - HUDSON PA	66 LEROY ST	E 0 - 1/8 (0.111 mi.)	M103	287
CON EDISON	41 MORTON ST	ENE 0 - 1/8 (0.113 mi.)	Q106	291
CON EDISON	OPP 291 W HOUSTON ST	SSE 0 - 1/8 (0.114 mi.)	R107	292
V1289	284 W HOUSTON STREET	SSE 0 - 1/8 (0.117 mi.)	113	326
CON EDISON	OPP 287 W HOUSTON ST	SSE 0 - 1/8 (0.117 mi.)	R114	327
CONSOLIDATED EDISON	72 BARROW ST.	NE 1/8 - 1/4 (0.126 mi.)	V123	340
CON EDISON	SE VARICK ST & CARMINE	ESE 1/8 - 1/4 (0.131 mi.)	Y130	358
CON EDISON	2-8 CLARKSON ST	ESE 1/8 - 1/4 (0.132 mi.)	Y132	362
CON EDISON	653 GREENWHICH ST	N 1/8 - 1/4 (0.132 mi.)	Z134	364
CON ED	FO 55 LEROY ST	E 1/8 - 1/4 (0.132 mi.)	X138	368
CLIPPER DIAMOND TOOL CO INC	225 VARICK ST 3RD FLOOR	ESE 1/8 - 1/4 (0.136 mi.)	Y141	371
CORP PRINTING CO INC-225 VARIC	225 VARICK ST - 12TH FL	ESE 1/8 - 1/4 (0.136 mi.)	Y142	373
CON EDISON - VO4967	221 VARICK ST 221 VARIC	SE 1/8 - 1/4 (0.138 mi.)	Y147	387
CON EDISON	SE 7TH AVE & LEROY ST	E 1/8 - 1/4 (0.142 mi.)	X152	396
CON EDISON	222 VARICK ST.	SE 1/8 - 1/4 (0.145 mi.)	AC154	399
CON EDISON	103 KING ST	S 1/8 - 1/4 (0.155 mi.)	AG166	418
CON EDISON	OPP 116 KING ST	S 1/8 - 1/4 (0.156 mi.)	AG169	421
CON EDISON	663 GREENWHICH ST	N 1/8 - 1/4 (0.160 mi.)	AI187	450
CON EDISON	HOUSTON & VARICK ST	SE 1/8 - 1/4 (0.161 mi.)	AC189	453
CON EDISON	74 CARMINE ST	ESE 1/8 - 1/4 (0.163 mi.)	AL192	456
GSA BUILDING SITE	201 VARICK ST	SSE 1/8 - 1/4 (0.163 mi.)	AM196	465
NYC BD OF ED - PUBLIC SCHOOL 3	490 HUDSON ST	NNE 1/8 - 1/4 (0.168 mi.)	AD205	509
CON EDISON	63 CARMINE ST	ESE 1/8 - 1/4 (0.168 mi.)	AL207	514
CONSOLIDATED EDISON	491 HUDSON ST.	NNE 1/8 - 1/4 (0.169 mi.)	AD209	516
NEW ARCHIVE CLEANERS	670 GREENWICH ST	N 1/8 - 1/4 (0.170 mi.)	AI211	520
CON EDISON	61 CARMINE ST	ESE 1/8 - 1/4 (0.170 mi.)	AL213	536
CON EDISON	68 CARMINE ST	ESE 1/8 - 1/4 (0.171 mi.)	AL214	537
CONSOLIDATED EDISON	160 CHRISTOPHER ST.	NNW 1/8 - 1/4 (0.173 mi.)	AP217	540
CON EDISON	162 CHRISTOPHER ST	NNW 1/8 - 1/4 (0.173 mi.)	AN220	544
CON EDISON	157 CHRISTOPHER ST	NNW 1/8 - 1/4 (0.174 mi.)	AP228	562
CON EDISON	147 CHRISTOPHER ST	N 1/8 - 1/4 (0.176 mi.)	AI236	573
CONSOLIDATED EDISON - MH44341	7TH AVE SOUTH & MORTON	ENE 1/8 - 1/4 (0.177 mi.)	AS238	574
CON EDISON	671 GREENWHICH ST	N 1/8 - 1/4 (0.178 mi.)	AI239	576
CON EDISON	143 CHRISTOPHER ST	N 1/8 - 1/4 (0.178 mi.)	AI240	577
CON EDISON	65 DOWNING ST	ESE 1/8 - 1/4 (0.180 mi.)	AT243	581
CON EDISON	SW CARMINE & BEDFORD ST	E 1/8 - 1/4 (0.183 mi.)	AU251	601
CONSOLIDATED EDISON	135 CHRISTOPHER ST.	N 1/8 - 1/4 (0.189 mi.)	AZ267	625
CON EDISON	52 DOWNING ST & VARICK	ESE 1/8 - 1/4 (0.189 mi.)	AT269	628
PORT AUTH TRANS HUDSON CO SUB	SUB 1 CHRISTOPHER GREEN	N 1/8 - 1/4 (0.190 mi.)	AZ270	629
CONSOLIDATED EDISON	26 GROVE ST.	NE 1/8 - 1/4 (0.192 mi.)	AY277	643
CONSOLIDATED EDISON	16 MORTON ST	ENE 1/8 - 1/4 (0.194 mi.)	AS279	646
CON EDISON	222 W HOUSTON ST	SE 1/8 - 1/4 (0.195 mi.)	AR280	649
CON EDISON	46 DOWNING ST	ESE 1/8 - 1/4 (0.195 mi.)	AT282	651
PARISH OF TRINITY CHURCH	345 HUDSON ST	S 1/8 - 1/4 (0.195 mi.)	AV287	660
CON EDISON	189 VARICK ST	SSE 1/8 - 1/4 (0.196 mi.)	BE289	674
52 CARMINE STREET	52 CARMINE STREET	E 1/8 - 1/4 (0.196 mi.)	AU292	678
NEWMARK & CO REAL ESTATE	200 VARICK ST 1ST FLOOR	SSE 1/8 - 1/4 (0.196 mi.)	BE294	683
XPLUSC	200 VARICK ST 6TH FLOOR	SSE 1/8 - 1/4 (0.196 mi.)	BE297	708
CON EDISON	SW VARICK & KING ST	SSE 1/8 - 1/4 (0.197 mi.)	BE302	720
CON EDISON	55 KING ST	SSE 1/8 - 1/4 (0.199 mi.)	BE303	721
CON EDISON	48 CARMINE ST	E 1/8 - 1/4 (0.203 mi.)	AU312	740
VILLAGE CENTER FOR CARE	214 W HOUSTON STREET	SE 1/8 - 1/4 (0.205 mi.)	BH318	754
CON EDISON	OPP 214 W HOUSTON ST	SE 1/8 - 1/4 (0.205 mi.)	BH320	755
V4222	183 VARICK STREET	SSE 1/8 - 1/4 (0.208 mi.)	BE327	770
CON EDISON	183 VARICK ST	SSE 1/8 - 1/4 (0.208 mi.)	BE328	772
CON EDISON	SE DOWNING & BEDFORD ST	ESE 1/8 - 1/4 (0.208 mi.)	BF330	774

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CON EDISON	663 WASHINGTON ST	NNW 1/8 - 1/4 (0.212 mi.)	BG333	781
CON EDISON	341 HUDSON ST	S 1/8 - 1/4 (0.212 mi.)	BJ334	782
CONSOLIDATED EDISON	30 DOWNING STREET	ESE 1/8 - 1/4 (0.212 mi.)	BF335	783
CON EDISON	181 VARICK ST	SSE 1/8 - 1/4 (0.213 mi.)	BE336	785
CON EDISON	42 CARMINE ST	E 1/8 - 1/4 (0.213 mi.)	BK338	787
GREENSPAN & KUSHLIN ENGRAVING	333 FAIRCHILD AVE	S 1/8 - 1/4 (0.214 mi.)	BJ340	790
CON ED - V 2928	209 W HOUSTON ST	SE 1/8 - 1/4 (0.215 mi.)	BH344	816
ACME CLEANERS	508 HUDSON ST	NNE 1/8 - 1/4 (0.216 mi.)	BN348	827
CON EDISON	OPP 294 W 10 ST	NNW 1/8 - 1/4 (0.220 mi.)	BG358	854
MTA NYCT - PUMP ROOM 2114	205 E HOUSTON ST	SE 1/8 - 1/4 (0.220 mi.)	BH359	855
CON EDISON	205 W HOUSTON ST	SE 1/8 - 1/4 (0.220 mi.)	BH361	860
DOVER AUTO BODY	296 W 10TH ST	NNW 1/8 - 1/4 (0.220 mi.)	BG362	861
CON EDISON	296 W 10 ST	NNW 1/8 - 1/4 (0.220 mi.)	BG363	863
CON EDISON	NW WASHINGTON ST & 10TH	NNW 1/8 - 1/4 (0.221 mi.)	BG365	865
CON EDISON	W 10TH ST & WASHINGTON	NNW 1/8 - 1/4 (0.221 mi.)	BG366	866
CON EDISON	29 DOWNING ST	ESE 1/8 - 1/4 (0.225 mi.)	BQ376	878
IMCLONE SYSTEMS INC	180 VARICK ST	SSE 1/8 - 1/4 (0.227 mi.)	BT382	887
ELITE ENGRAVING LTD	175 VARICK ST	SSE 1/8 - 1/4 (0.230 mi.)	BT385	908
CON EDISON	196 W HOUSTON ST	ESE 1/8 - 1/4 (0.231 mi.)	BU389	948
CONSOLIDATED EDISON	250 250 BLEEKER STREET	E 1/8 - 1/4 (0.235 mi.)	BP396	961
RECTOR TRINITY CHURCH	330 HUDSON ST	S 1/8 - 1/4 (0.236 mi.)	BY402	973
CONSOLIDATED EDISON	44 CHARLTON ST	SSE 1/8 - 1/4 (0.237 mi.)	BT407	983
CON EDISON	OPP 171 VARICK ST	SSE 1/8 - 1/4 (0.242 mi.)	BT413	992
CON EDISON	19 DOWNING ST	ESE 1/8 - 1/4 (0.242 mi.)	415	994
CON EDISON	28 CARMINE SR	E 1/8 - 1/4 (0.242 mi.)	CB417	996
HUDSON TELECOM CENTER LLC	325 HUDSON ST	S 1/8 - 1/4 (0.242 mi.)	BY419	999
CON EDISON	253 BLEECKER ST	ENE 1/8 - 1/4 (0.243 mi.)	CC422	1027
Lower Elevation				
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
TECHNICOLOR EAST COAST INC	110 LEROY ST	SW 0 - 1/8 (0.021 mi.)	A5	47
CONSOLIDATED EDISON	V6360-75 MORTON ST	NNW 0 - 1/8 (0.045 mi.)	D21	90
ENTERPRISE PRESS	627 GREENWICH STREET	NW 0 - 1/8 (0.047 mi.)	D25	111
CON EDISON	625 GREENWICH ST	NW 0 - 1/8 (0.047 mi.)	D26	139
CON EDISON	91 MORTON ST	NNW 0 - 1/8 (0.053 mi.)	D35	156
CON EDISON	41 CLARKSON ST	SSW 0 - 1/8 (0.054 mi.)	F36	157
FINISH RESOURCE	95 MORTON ST 7TH FLOOR	NNW 0 - 1/8 (0.057 mi.)	D42	165
EAGLE ENVELOPE CO	95 MORTON ST FLOOR 2	NNW 0 - 1/8 (0.057 mi.)	D43	168
CON EDISON	SEGREENWICH ST & CLARKS	SW 0 - 1/8 (0.070 mi.)	H55	189
FEDERAL EXPRESS CORP	148 LEROY ST	W 0 - 1/8 (0.090 mi.)	I66	208
CON EDISON	NE WASHINGTON ST & MORT	NW 0 - 1/8 (0.098 mi.)	N72	223
CON EDISON	585 WASHINGTON ST	WSW 0 - 1/8 (0.102 mi.)	L78	244
CON EDISON	158 LEROY ST	W 0 - 1/8 (0.103 mi.)	P83	258
CON EDISON	160 LEROY ST	W 0 - 1/8 (0.106 mi.)	P87	262
UNITED PARCEL SERVICE	325 W HOUSTON ST	SW 0 - 1/8 (0.115 mi.)	T112	307
CON EDISON	OPP 575 WASHINGTON ST	SW 0 - 1/8 (0.120 mi.)	U120	335
QUAD GRAPHICS	375 HUDSON ST - NE COR	SSW 1/8 - 1/4 (0.127 mi.)	W125	347
TISHMAN SPEYER PRODUCTS	375 HUDSON STREET	SSW 1/8 - 1/4 (0.127 mi.)	W127	355
MERRILL LYNCH & CO	570 WASHINGTON ST	SW 1/8 - 1/4 (0.131 mi.)	U131	359
CON ED-V5931	125 BARROW ST	NW 1/8 - 1/4 (0.133 mi.)	AA139	369
BLOOMBERG DATA CENTER	340 WEST ST	W 1/8 - 1/4 (0.158 mi.)	AH179	438
CON EDISON	LEROY ST & WEST ST	W 1/8 - 1/4 (0.159 mi.)	AH181	443
ONDEO NALCO CO	330 WEST ST	W 1/8 - 1/4 (0.160 mi.)	AH184	446
CON EDISON	FO 641 WASHINGTON ST	NNW 1/8 - 1/4 (0.164 mi.)	AN199	496
CONSOLIDATED EDISON	357 WEST 87TH STREET	W 1/8 - 1/4 (0.173 mi.)	AH223	551
CON EDISON	NW WASHINGTON ST & CHRI	NNW 1/8 - 1/4 (0.175 mi.)	AN231	566

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CON EDISON	OPP. 649 WASHINGTON ST	NNW 1/8 - 1/4 (0.184 mi.)	AN253	603
PIER 40 OPERATING LLC	WEST & W HOUSTON ST	WSW 1/8 - 1/4 (0.184 mi.)	AW255	605
CONSOLIDATED EDISON	W HOUSTON ST & WEST ST	WSW 1/8 - 1/4 (0.185 mi.)	AW256	607
CON EDISON	651 WASHINGTON ST	NNW 1/8 - 1/4 (0.188 mi.)	AP259	612
CON EDISON - MH 51736	WEST & HOUSTON ST. WEST	WSW 1/8 - 1/4 (0.191 mi.)	AW273	636
CON EDISON	CHRISTOPHER ST AND WEEHNS	1/8 - 1/4 (0.197 mi.)	BB300	718
CON EDISON	OPP 535 WASHINGTON ST	SSW 1/8 - 1/4 (0.222 mi.)	BR370	871
CON EDISON	302 W 10TH ST	NNW 1/8 - 1/4 (0.225 mi.)	379	882

NJ MANIFEST: Hazardous waste manifest information.

A review of the NJ MANIFEST list, as provided by EDR, and dated 11/01/2013 has revealed that there are 3 NJ MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
US DEPARTMENT OF ENERGY	201 VARICK STREET	SSE 1/8 - 1/4 (0.163 mi.)	AM197	480
NYU SOM 180 VARICK LABS	180 VARICK ST	SSE 1/8 - 1/4 (0.230 mi.)	BT387	916
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
U.P.S.	325 W HOUSTON ST	SW 0 - 1/8 (0.119 mi.)	T117	332

RI MANIFEST: Hazardous waste manifest information

A review of the RI MANIFEST list, as provided by EDR, and dated 11/01/2013 has revealed that there are 2 RI MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HUDSON KIM'S CLEANERS	462 HUDSON ST	NNE 0 - 1/8 (0.102 mi.)	079	245
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FEDERAL EXPRESS CORP	148 LEROY ST	W 0 - 1/8 (0.090 mi.)	166	208

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 11/01/2013 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NYS OFFICE OF MENTAL RETARDATI	75 MORTON STREET	NNE 0 - 1/8 (0.052 mi.)	E32	152

NY DRYCLEANERS: A listing of all registered drycleaning facilities.

A review of the NY DRYCLEANERS list, as provided by EDR, and dated 01/21/2014 has revealed that there are 6 NY DRYCLEANERS sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PRINTING HOUSE VALET	421 HUDSON ST	ESE 0 - 1/8 (0.022 mi.)	A9	64

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HUDSON DRY CLEANERS INCORPORAT	462 HUDSON STREET	NNE 0 - 1/8 (0.102 mi.)	O80	250
NU-BRIGHT DRY CLEANERS	60 BEDFORD STREET	ENE 1/8 - 1/4 (0.154 mi.)	AF161	415
NEW ARCHIVE/GREAT AMRICN DRYCL	668 GREENWICH STREET	N 1/8 - 1/4 (0.189 mi.)	AX268	627
ACME CLEANERS	508 HUDSON STREET	NNE 1/8 - 1/4 (0.216 mi.)	BN350	841
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SLATE NYC INC	96 MORTON STREET	NNW 0 - 1/8 (0.057 mi.)	D47	177

NY E DESIGNATION: Lots designation with an ?E? on the Zoning Maps of the City of New York for potential hazardous material contamination, air and/or noise quality impacts.

A review of the NY E DESIGNATION list, as provided by EDR, and dated 12/10/2013 has revealed that there are 4 NY E DESIGNATION sites within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LOT 64,TAXBLOCK 602	78 MORTON STREET	NNE 0 - 1/8 (0.051 mi.)	E27	140
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LOT 85,TAXBLOCK 602	621 GREENWICH STREET	WNW 0 - 1/8 (0.042 mi.)	C19	84
LOT 55,TAXBLOCK 602	623 GREENWICH STREET	NW 0 - 1/8 (0.044 mi.)	C20	87
LOT 28,TAXBLOCK 602	601 WASHINGTON STREET	W 0 - 1/8 (0.075 mi.)	I58	192

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CON EDISON - CANAL ST. WORKS M	CANAL STREET	SSE 1/2 - 1 (0.906 mi.)	469	1134

EXECUTIVE SUMMARY

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 21 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	24 CLARKSON ST	SE 0 - 1/8 (0.072 mi.)	G56	190
Not reported	81 BARROW ST	NE 0 - 1/8 (0.113 mi.)	O105	290
Not reported	1 7TH AVE S	ESE 1/8 - 1/4 (0.132 mi.)	Y135	365
Not reported	16 7TH AVE S	E 1/8 - 1/4 (0.134 mi.)	X140	371
Not reported	21 7TH AVE S	E 1/8 - 1/4 (0.140 mi.)	X150	392
Not reported	60 BARROW ST	NE 1/8 - 1/4 (0.160 mi.)	AK186	450
Not reported	236 W HOUSTON ST	SE 1/8 - 1/4 (0.176 mi.)	AR235	572
Not reported	10 MORTON ST	ENE 1/8 - 1/4 (0.218 mi.)	BM352	842
Not reported	15 LEROY ST	E 1/8 - 1/4 (0.219 mi.)	BP357	854
Not reported	121 CHRISTOPHER ST	NNE 1/8 - 1/4 (0.223 mi.)	BL371	872
Not reported	666 WASHINGTON ST	NNW 1/8 - 1/4 (0.223 mi.)	BG372	873
Not reported	279 10 AVENUE 26 ST W	NNW 1/8 - 1/4 (0.233 mi.)	BV390	949
Not reported	115 CHRISTOPHER ST	NNE 1/8 - 1/4 (0.235 mi.)	BX398	965

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	601 WASHINGTON ST	W 0 - 1/8 (0.075 mi.)	I59	194
Not reported	160 LEROY ST	W 0 - 1/8 (0.106 mi.)	P86	262
Not reported	575 WASHINGTON ST	SW 0 - 1/8 (0.120 mi.)	U118	334
Not reported	144 BARROW ST	NW 1/8 - 1/4 (0.148 mi.)	AA156	405
Not reported	358 WEST ST	W 1/8 - 1/4 (0.158 mi.)	AH174	433
Not reported	356 WEST ST	W 1/8 - 1/4 (0.158 mi.)	AH176	435
Not reported	350 WEST ST	W 1/8 - 1/4 (0.158 mi.)	AH178	438
Not reported	359 WEST ST	W 1/8 - 1/4 (0.174 mi.)	AH226	561

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 18 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	462 HUDSON ST	NNE 0 - 1/8 (0.102 mi.)	O81	256
Not reported	60 BEDFORD ST	ENE 1/8 - 1/4 (0.154 mi.)	AF162	415
Not reported	62 BEDFORD ST	ENE 1/8 - 1/4 (0.154 mi.)	AF163	416
Not reported	60 BEDFORD	ENE 1/8 - 1/4 (0.155 mi.)	AF164	417

EXECUTIVE SUMMARY

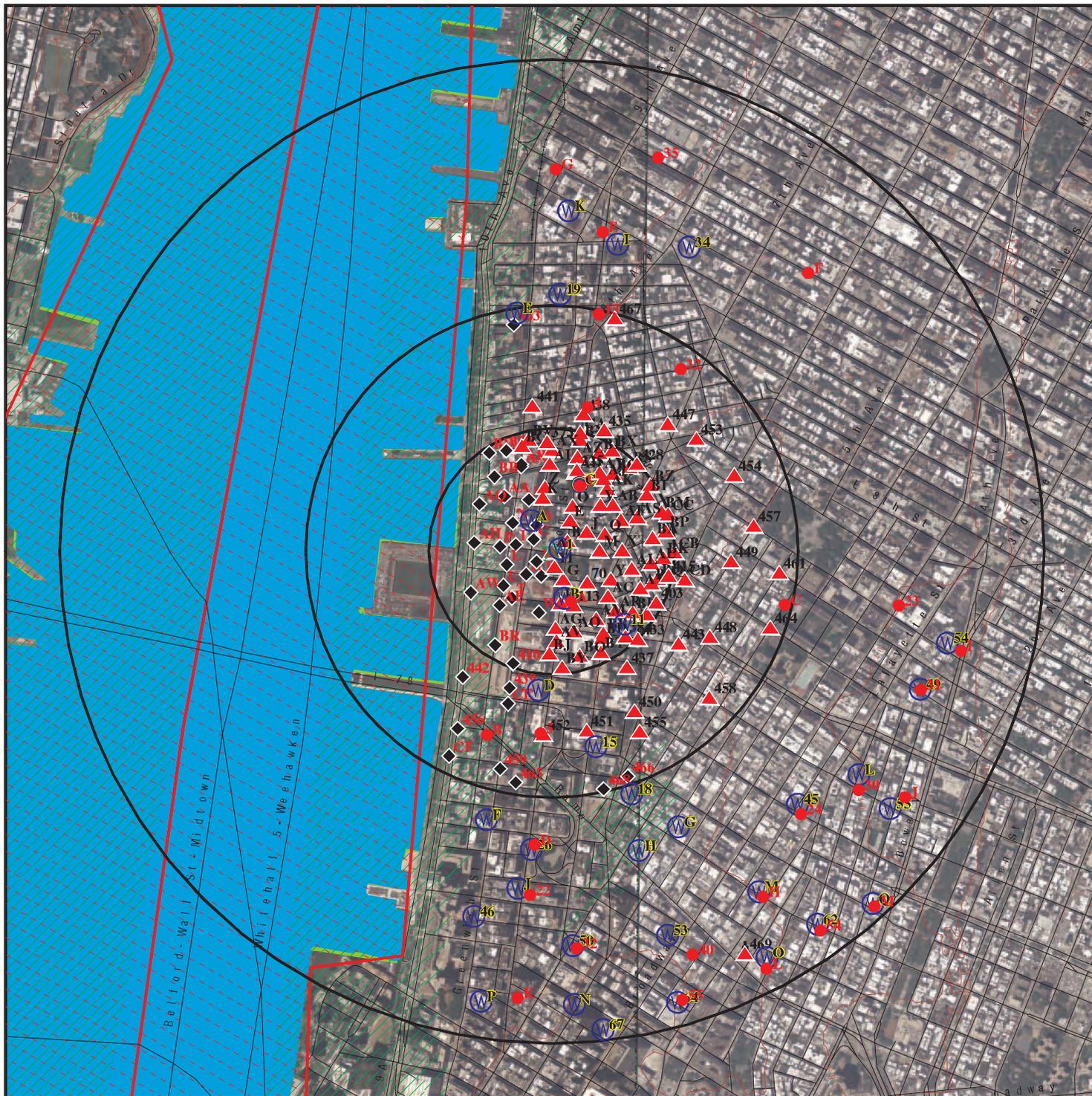
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	72 BEDFORD ST	ENE 1/8 - 1/4 (0.155 mi.)	AB165	417
Not reported	45 GROVE CT	NNE 1/8 - 1/4 (0.160 mi.)	AJ185	450
Not reported	66 CARMINE ST	ESE 1/8 - 1/4 (0.171 mi.)	AL216	539
Not reported	46 7TH AVE S	ENE 1/8 - 1/4 (0.177 mi.)	AF237	574
Not reported	666 GREENWICH ST	N 1/8 - 1/4 (0.188 mi.)	AX260	613
Not reported	670 GREENWICH ST	N 1/8 - 1/4 (0.191 mi.)	AX272	636
Not reported	48 CARMINE ST	E 1/8 - 1/4 (0.203 mi.)	AU313	741
Not reported	62 7TH AVE S	ENE 1/8 - 1/4 (0.205 mi.)	BI321	756
Not reported	508 HUDSON ST	NNE 1/8 - 1/4 (0.216 mi.)	BN349	840
Not reported	120 CHRISTOPHER ST	NNE 1/8 - 1/4 (0.216 mi.)	BL351	841
Not reported	71 7TH AVE S	ENE 1/8 - 1/4 (0.225 mi.)	BI375	877
Not reported	1 LEROY ST	E 1/8 - 1/4 (0.244 mi.)	CC423	1028
Not reported	45 GROVE ST	NE 1/8 - 1/4 (0.248 mi.)	428	1034
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	183 CHRISTOPHER ST	NW 1/8 - 1/4 (0.191 mi.)	BB274	638

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

<u>Site Name</u>	<u>Database(s)</u>
CON EDISION - MH4706	RCRA NonGen / NLR, NY MANIFEST
CON EDISION - MH38210	RCRA NonGen / NLR, NY MANIFEST
NYSDOT BIN 1005150	RCRA NonGen / NLR, FINDS, NY MANIFEST
BELL ATLANTIC NY	NY MANIFEST
BELL ATLANTIC NY	NY MANIFEST
CONSOLIDATED EDISON	NY MANIFEST
CONSOLIDATED EDISON	NY MANIFEST
HUDSON RIVER PARK TRUST	RCRA NonGen / NLR, FINDS, NY MANIFEST
BELL ATLANTIC-NY	FINDS, NY MANIFEST
CON EDISON - PIER 40	RCRA NonGen / NLR, FINDS, NY MANIFEST
LAW & ORDER PRODUCTIONS	RCRA-CESQG, FINDS, NY MANIFEST, NJ MANIFEST
MEGA ART	RCRA NonGen / NLR, FINDS, NY MANIFEST
VS3610	RCRA NonGen / NLR, NY MANIFEST
MH51640	RCRA NonGen / NLR, NY MANIFEST
CONRAIL N 72 STREET	RCRA NonGen / NLR, FINDS
CON EDISON	RCRA NonGen / NLR
DUPONT CANADA INC FLURO PRODUCTS	RCRA NonGen / NLR, FINDS
59TH GENERATION STATION	NY Spills
PINE PLAZA SHOPPING CENTER	NJ VCP
NYC DOS WEST 30TH STREET RECYCLING	NY RGA LF

OVERVIEW MAP - 3878053.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

■ County Boundary

■ Oil & Gas pipelines from USGS

■ 100-year flood zone

■ 500-year flood zone

■ National Wetland Inventory

■ State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 111 Leroy Street, NY, NY
 ADDRESS: 111 Leroy Street.
 New York NY 10014
 LAT/LONG: 40.7303 / 74.0074

CLIENT: Hydro Tech Env. Corp.
 CONTACT: Yvonne Martinez
 INQUIRY #: 3878053.2s
 DATE: March 11, 2014 9:43 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	1	0	0	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	2	0	NR	NR	2
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	1	0	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	7	NR	NR	NR	7
RCRA-SQG	0.250		5	3	NR	NR	NR	8
RCRA-CESQG	0.250		15	52	NR	NR	NR	67
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	1	0	NR	NR	1
US INST CONTROL	0.500		0	1	0	NR	NR	1
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
NY SHWS	1.000		1	0	0	0	NR	1
NJ SHWS	1.000		0	0	0	0	NR	0
NY VAPOR REOPENED	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
NY SWF/LF	0.500		0	0	1	NR	NR	1
NJ SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
NY LTANKS	0.500	1	6	15	31	NR	NR	53

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY HIST LTANKS	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
NY TANKS	0.250		0	0	NR	NR	NR	0
NY UST	0.250	1	4	9	NR	NR	NR	14
NJ UST	0.250		0	0	NR	NR	NR	0
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY AST	0.250		19	79	NR	NR	NR	98
NY CBS AST	0.250		1	1	NR	NR	NR	2
NY MOSF AST	0.500		0	0	0	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY CBS	0.250		1	1	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
NY ENG CONTROLS	0.500		0	0	0	NR	NR	0
NJ ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	0	NR	NR	0
NJ INST CONTROL	0.500		0	0	0	NR	NR	0
NY RES DECL	0.125		0	NR	NR	NR	NR	0
State and tribal voluntary cleanup sites								
NY VCP	0.500		0	0	0	NR	NR	0
NJ VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
NY ERP	0.500		0	0	0	NR	NR	0
NY BROWNFIELDS	0.500		0	0	3	NR	NR	3
NJ BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
NY SWTIRE	0.500		0	0	0	NR	NR	0
NY SWRCY	0.500		1	0	0	NR	NR	1
NJ SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY DEL SHWS	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
NY HIST UST	0.250		1	6	NR	NR	NR	7
NY HIST AST	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
NY LIENS	TP		NR	NR	NR	NR	NR	0
NJ LIENS	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125	1	29	NR	NR	NR	NR	30
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NJ SPILLS 90	0.125		0	NR	NR	NR	NR	0
NJ SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		10	38	NR	NR	NR	48
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	1	0	0	NR	1
ROD	1.000		0	1	0	0	NR	1
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
NY HSWDS	0.500		0	1	0	NR	NR	1
NY UIC	TP		NR	NR	NR	NR	NR	0
NJ UIC	TP		NR	NR	NR	NR	NR	0
NY MANIFEST	0.250		32	96	NR	NR	NR	128
NJ MANIFEST	0.250		1	2	NR	NR	NR	3
RI MANIFEST	0.250		2	0	NR	NR	NR	2
PA MANIFEST	0.250		1	0	NR	NR	NR	1
NY DRYCLEANERS	0.250		3	3	NR	NR	NR	6
NJ DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY SPDES	TP		NR	NR	NR	NR	NR	0
NJ NPDES	TP		NR	NR	NR	NR	NR	0
NY AIRS	TP		NR	NR	NR	NR	NR	0
NY E DESIGNATION	0.125	1	4	NR	NR	NR	NR	5
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY Financial Assurance	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
NJ COAL ASH	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
NJ Financial Assurance	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	1	NR	1
EDR US Hist Auto Stat	0.250		5	16	NR	NR	NR	21
EDR US Hist Cleaners	0.250		1	17	NR	NR	NR	18

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA LF	TP		NR	NR	NR	NR	NR	0
NY RGA HWS	TP		NR	NR	NR	NR	NR	0
NJ RGA HWS	TP		NR	NR	NR	NR	NR	0
NJ RGA LF	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

A1 111 LEROY STREET
Target 111 LEROY STREET
Property NEW YORK, NY 10014

NY UST U004044929
N/A

Site 1 of 9 in cluster A

Actual:
14 ft.

UST:
Id/Status: 2-608656 / Active
Program Type: PBS
Region: STATE
DEC Region: 2
Expiration Date: 2008/03/26
UTM X: 583813.71311000001
UTM Y: 4509295.9899500003
Site Type: Other

Affiliation Records:

Site Id: 30508
Affiliation Type: Facility Owner
Company Name: IRMA ASSOCIATES LLC % FIEBER MANAGEMENT
Contact Type: Not reported
Contact Name: Not reported
Address1: 105 COURT ST.
Address2: Not reported
City: BROOKLYN
State: NY
Zip Code: 11201
Country Code: 001
Phone: (718) 852-4001
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30508
Affiliation Type: Mail Contact
Company Name: % MRS. RITA FIEBER
Contact Type: Not reported
Contact Name: IRMA ASSOCIATES LLC
Address1: 134 CEDAR AVENUE
Address2: Not reported
City: HEWLETT
State: NY
Zip Code: 11557
Country Code: 001
Phone: (516) 374-7240
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30508
Affiliation Type: On-Site Operator
Company Name: 111 LEROY STREET
Contact Type: Not reported
Contact Name: ROB HALLE
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

111 LEROY STREET (Continued)

U004044929

Zip Code: Not reported
Country Code: 001
Phone: (212) 647-1114
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 30508
Affiliation Type: Emergency Contact
Company Name: IRMA ASSOCIATES LLC % FIEBER MANAGEMENT
Contact Type: Not reported
Contact Name: EDWARD KAMINSKY
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 750-3636
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 0001
Tank ID: 65458
Tank Status: In Service
Material Name: In Service
Capacity Gallons: 1500
Install Date: Not reported
Date Tank Closed: Not reported
Registered: True
Tank Location: Underground
Tank Type: Steel/carbon steel
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Tightness Test Method: 21
Date Test: 06/17/2003
Next Test Date: 06/17/2008
Pipe Model: Not reported
Modified By: SCREICHI
Last Modified: 06/12/2006

Equipment Records:

C03 - Pipe Location - Aboveground/Underground Combination
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
I00 - Overfill - None

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

111 LEROY STREET (Continued)

U004044929

B00 - Tank External Protection - None

**A2
 Target
 Property**

**LOT 83,TAXBLOCK 602
 111 LEROY STREET
 MANHATTAN, NY 10014**

**NY E DESIGNATION S109318177
 N/A**

Site 2 of 9 in cluster A

**Actual:
 14 ft.**

E DESIGNATION:
 Tax Lot(s): 83
 E-No: E-211
 Effective Date: 7/23/2008
 Satisfaction Date: Not reported
 Ceqr Number: 07DCP095M
 Ulurp Number: 070575ZMM
 Zoning Map No: 12a
 Description: Air Quality - #2 Fuel Oil or Natural Gas Heat and Hot Water
 Borough Code: MN
 Community District: 102
 Census Tract: 69
 Census Block: 1002
 School District: 02
 City Council District: 03
 Fire Company: E024
 Health Area: 15
 Police Precinct: 006
 Zone District 1: M1-5
 Zone District 2: Not reported
 Commercial Overlay1: Not reported
 Commercial Overlay2: Not reported
 Special Purpose District1: Not reported
 Special Purpose District2: Not reported
 All Components1: M1-5
 All Components2: Not reported
 Split Boundary Indicator: N
 Building Class: K9
 Land Use Category: 05
 Number of Easements: 0
 Owner, Type of Code: Not reported
 Owner Name: IRMA ASSOCIATES,
 Lot Area: 000004000
 Total Building Floor Area: 0000008025
 Commercial Floor Area: 0000008025
 Office Floor Area: 0000000000
 Retail Floor Area: 0000000000
 Garage Floor Area: 0000008025
 Storage Floor Area: 0000000000
 Factory Floor Area: 0000000000
 Other Floor Area: 0000000000
 Floor Area,Total Bld Source Code7
 Number of Buildings: 00001
 Number of Floors: 002.00
 Residential Units: 00000
 Non and Residential Units: 00001
 Lot Frontage: 0040.00
 Lot Depth: 0100.00
 Building Frontage: 0040.00
 Building Depth: 0100.00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOT 83,TAXBLOCK 602 (Continued)

S109318177

Proximity Code: 2
Irregular Lot Code: N
Lot Type: 5
Basement Type Grade: 5
Land Assessed Value: 00000194850
Total Assessed Value: 00000376200
Land Exempt Value: 00000000000
Total Exempt Value: 00000000000
Year Built: 1947
Year Built Code: Not reported
Year Altered1: 0000
Year Altered2: 0000
Historic District Name: Not reported
Landmark Name: Not reported
Built Floor Area Ratio-Far: 0002.01
Maximum Allowable Far: 5.00
Borough Code: 1
Borough Tax Block And Lot: 1006020083
Condominium Number: 00000
Census Tract 2: 0069
X Coordinate: 0982173
Y Coordinate: 0205413
Zoning Map: 12A
Sanborn Map: 103 001
Tax Map: 10208
E Designation No: Not reported
Date of RPAD Data: 11/2005
Date of DCAS Data: 01/2006
Date of Zoning Data: 11/2005
Date of Major Property Data: 11/2005
Date of Landmark Data: 12/2005
Date of Base Map Data: 01/2006
Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

Tax Lot(s): 83
E-No: E-211
Effective Date: 7/23/2008
Satisfaction Date: Not reported
Ceqr Number: 07DCP095M
Ulurp Number: 070575ZMM
Zoning Map No: 12a
Description: Exhaust stack location limitations
Borough Code: MN
Community District: 102
Census Tract: 69
Census Block: 1002
School District: 02
City Council District: 03
Fire Company: E024
Health Area: 15
Police Precinct: 006
Zone District 1: M1-5
Zone District 2: Not reported
Commercial Overlay1: Not reported
Commercial Overlay2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOT 83,TAXBLOCK 602 (Continued)

S109318177

Special Purpose District1: Not reported
Special Purpose District2: Not reported
All Components1: M1-5
All Components2: Not reported
Split Boundary Indicator: N
Building Class: K9
Land Use Category: 05
Number of Easements: 0
Owner, Type of Code: Not reported
Owner Name: IRMA ASSOCIATES,
Lot Area: 000004000
Total Building Floor Area: 00000008025
Commercial Floor Area: 00000008025
Office Floor Area: 00000000000
Retail Floor Area: 00000000000
Garage Floor Area: 00000008025
Storage Floor Area: 00000000000
Factory Floor Area: 00000000000
Other Floor Area: 00000000000
Floor Area,Total Bld Source Code7
Number of Buildings: 00001
Number of Floors: 002.00
Residential Units: 00000
Non and Residential Units: 00001
Lot Frontage: 0040.00
Lot Depth: 0100.00
Building Frontage: 0040.00
Building Depth: 0100.00
Proximity Code: 2
Irregular Lot Code: N
Lot Type: 5
Basement Type Grade: 5
Land Assessed Value: 00000194850
Total Assessed Value: 00000376200
Land Exempt Value: 00000000000
Total Exempt Value: 00000000000
Year Built: 1947
Year Built Code: Not reported
Year Altered1: 0000
Year Altered2: 0000
Historic District Name: Not reported
Landmark Name: Not reported
Built Floor Area Ratio-Far: 0002.01
Maximum Allowable Far: 5.00
Borough Code: 1
Borough Tax Block And Lot: 1006020083
Condominium Number: 00000
Census Tract 2: 0069
X Coordinate: 0982173
Y Coordinate: 0205413
Zoning Map: 12A
Sanborn Map: 103 001
Tax Map: 10208
E Designation No: Not reported
Date of RPAD Data: 11/2005
Date of DCAS Data: 01/2006
Date of Zoning Data: 11/2005

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LOT 83,TAXBLOCK 602 (Continued)

S109318177

Date of Major Property Data: 11/2005
 Date of Landmark Data: 12/2005
 Date of Base Map Data: 01/2006
 Date of Mass Appraisal Data: 11/2005
 Date of Political and Adm Data: 08/2005
 Pluto-Base Map Indicator: 1

**A3
 Target
 Property**

**111 LEROY ST
 111 LEROY ST
 MANHATTAN, NY**

**NY LTANKS
 NY Spills**

**S105998775
 N/A**

Site 3 of 9 in cluster A

**Actual:
 14 ft.**

LTANKS:

Site ID: 283679
 Spill Number/Closed Date: 0300861 / 5/2/2006
 Spill Date: 4/24/2003
 Spill Cause: Tank Test Failure
 Spill Source: Commercial/Industrial
 Spill Class: Known release that creates potential for fire or hazard. DEC Response.
 Willing Responsible Party. Corrective action taken.
 Cleanup Ceased: Not reported
 Cleanup Meets Standard: False
 SWIS: 3101
 Investigator: KSTANG
 Referred To: Not reported
 Reported to Dept: 4/24/2003
 CID: 257
 Water Affected: Not reported
 Spill Notifier: Tank Tester
 Last Inspection: Not reported
 Recommended Penalty: False
 UST Involvement: False
 Remediation Phase: 0
 Date Entered In Computer: 4/24/2003
 Spill Record Last Update: 5/2/2006
 Spiller Name: ED KAMINSKY
 Spiller Company: HANDSMAN & KAMINSKY, LLP
 Spiller Address: 101 EAST 52ND STREET
 Spiller City,St,Zip: MANHATTAN, NY 10022
 Spiller County: 001
 Spiller Contact: ED KAMINSKI
 Spiller Phone: (212) 750-0615
 Spiller Extention: Not reported
 DEC Region: 2
 DER Facility ID: 230091
 DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TIPPLE/DDO"4/24/03 TJD TTF letter sent.7/22/05 mt//one page arrived, references 3 drums of contaminants removed, did not describe what was left behind or where the contaminants went//not nearly adequate info to petition for closure.// the name on bottom of letter is "office manager"4/20/06 Spoke to Michael Griffin (cell 516-924-2628), one of the property owners. He hired USA Environmental to collect soil samples from the former excavated area. They collected the samples but have not provided any data or a report. Mr. Griffin indicated that he will be hiring another company in order to move ahead. (KMF)5/2/06 - reviewed soil borings results from Petroleum Tank Cleaners, Ltd. Sample results show no release. Spill closed and NFA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

111 LEROY ST (Continued)

S105998775

Remarks: letter issued. - KST
wet & dry leak

Material:

Site ID: 283679
Operable Unit ID: 867228
Operable Unit: 01
Material ID: 508934
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

SPILLS:

Facility ID: 0611866
Facility Type: ER
DER Facility ID: 326188
Site ID: 376595
DEC Region: 2
Spill Date: 1/26/2007
Spill Number/Closed Date: 0611866 / Not Reported
Spill Cause: Other
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.

SWIS: 3101
Investigator: JMOCONNE
Referred To: Not reported
Reported to Dept: 1/26/2007
CID: 444
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Other
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 5
Date Entered In Computer: 1/26/2007
Spill Record Last Update: 10/23/2013
Spiller Name: Not reported
Spiller Company: CON EDISON
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 999
Contact Name: MARGARET GENTLE
Contact Phone: (718) 665-5700
DEC Memo: spill was caused by ConEd and is being cleaned up by them.204253. see

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

111 LEROY ST (Continued)

S105998775

eDocs. 4/13/07: Spill submitted for closure by Con Ed. Request denied, with comment: "Was repair made to damaged fill line? Was contractor that installed vault working for Con Ed?" (JHO)5/15/07: spill submitted for closure by Con Ed. Response to above comment was: "Safeway Construction Enterprises was working directly for Con Edison. Safeway repaired the oil fill line. Safeway also conducted the clean up and disposed of the non-haz oily debris." Request for closure denied, with comment: "Following completion of repairs to fill line, a NYSDEC-approved precision test is required to confirm repair was successful. Was testing performed? What test method was used?" (JHO)12/19/07: e-mail from Con Ed (Brian Bellows) regarding testing of the line: "As mentioned, there is no access to the tank system for line testing. In addition, approval from the property owner will be needed for work on their tank as mentioned below. Any guidance in resolving this issue would be appreciated." Attached to Con Ed (Bellows) e-mail was an e-mail from Con Ed's contractor (Robert M. Laga of The Franklin Company Contractors, Inc.), which states: "Based upon my inspection, there is a buried tank located under the building. The tank has a fill line, vent line, suction and return. The only access to the tank is through a 24"x24" manhole to a round man-way cover, I noticed a few bolts missing in the cover. The cover has no openings on it to access the tank. The size of the tank is questionable." "Testing the tank through approved methods by the DEC/EPA is not possible because there is no access to the tank. In the event you are required to test the tank, the DEC has allowed in the past, to test the tank through the vent line. This test would only be an indication of whether the tank was tight or non-tight. To perform a complete test, the water intrusion portion of the test must be performed. Water intrusion testing does not have to be completed if it can be demonstrated to the DEC that groundwater is well below the bottom of the tank. This could be determined using a Geo-probe rig for an additional cost." "Another option is to have us remove the man-way lid and weld on a 2" or 4" bung. This would allow us to test the tank the conventional method, but would require a few days to prepare and get the tank ready for testing." (JHO)12/20/07: e-mail to Con Ed (Bellows): "Please clarify the sequence of events for me. As I understand it, your contractor disconnected the fill line in order to install the vault. The fill line was re-connected but leaked (?) or did the leak happen during the disconnection period? At what point was the fill line re-connected?" (JHO)12/21/07: e-mail response from Con Ed (Bellows): "On January 26, 2007, a spill was cleaned up in the area where the contractor had removed an oil fill line when constructing a vault. When the oil company came to make a delivery, the oil leaked into the backfilled excavation. The contractor came back and excavated soil then made the repairs to the oil fill line they removed." (JHO)12/21/07: E-mail to Con Ed (Bellows): "Was the initial spill they cleaned up (on Jan 26) a result of the line being disconnected?" (JHO)12/21/07: e-mail response from Con Ed (Bellows): "According to the inspector, the final clean up was completed on 1-26-07 at 1500 hrs. Clean up was completed by Safeway construction. The affected 2 yards soil was dug up and replaced with clean soil." 1/16/08: E-mail from Con Ed (Bellows): "Just a quick follow-up on this spill event, I believe you were checking to see if we would be required to have the entire tank system tested since the tank line could not be isolated. As mentioned previously the tank system would need to be modified for testing. Let me know if anything else is needed at this time or if a tank testing determination is

Map ID
Direction
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

111 LEROY ST (Continued)

S105998775

made." E-mail reply to Con Ed (Bellows): "I spoke with our PBS staff [Jacob Krimgold], and they said the line has to be tested. I checked the records for this building, and saw that the tank system was tested in 2003 using the Horner EZ3 testing method, and is due for another test in June 2008. Perhaps that method can be used again." (JHO)10/16/2013 - spill re-assigned to O'Connell; received closure request from Con Edison via email which includes: At this point in time, the building located at 111 Leroy Street must be considered abandoned. All utilities (gas, electric, water) has been shut off. Con Edison has conducted all reasonable Due diligence to gain legal access to 111 Leroy Street in order to conduct a pressure test on the fuel oil tank fill-line. Con Edison believes that because of the foreclosure situation, 111 Leroy Street will not be occupied in the foreseeable future. The original one quart spill that was discovered on 26Jan2007@12:05 was cleaned up within 3 hours of discovery...cleanup complete on 26Jan2007@15:00 by Safeway Construction; a Con Edison approved contractor; all documented within the attached spill report (see PDF). We recommend that the DEC tag the fuel oil fill port at 111 Leroy Street as 'DO NOT FILL' and place the onus of pressure-testing the fuel oil tank fill-line onto the future owner(s) thus allowing this spill incident to be closed via the DEC Spill Data Base. The following Chrono delineates Con Edison's Due diligence associated with this one quart spill of #2 fuel oil from a leaking elbow at the sidewalk: 26Jan2007, 12:05A Con Edison Construction Manager (M. Chionchio (18737)) reported that Stuyvesant Fuel Company was at this location delivering home heating fuel and leaked 1 quart of #2 fuel oil to soil. The spill was caused when a loose elbow on the fuel oil line (leading to the basement fuel oil tank) was removed and improperly reinstalled by a Con Edison contractor during the installation of a new sidewalk electrical vault. 26Jan2007, 15:00 The 1 quart spill that was cleaned up within 3 hours...cleanup complete by Safeway Construction; a Con Edison approved contractor. Two cubic yards of oily debris was disposed of as non-haz industrial waste. 10Jun2007A Con Edison EH&S Project Specialist (Brian Bellows) scheduled the Franklin Company (a subcontractor of Safeway Construction) to pressure test the fuel oil tank in the basement of 111 Leroy Street as per NYSDEC recommendations. A field visit at that time found the building vacant. Additionally, the building had a Disconnect Notice posted to the front door for termination of Power and Light service. According to the owner of the parking lot next door, 111 Leroy Street is scheduled for demolition per a Notice he received. 05Nov2008 Brian Bellows, Project Specialist with Construction EH&S tried to contact the owner of the building; without success. Mr. Bellows proceeded to call everyone identified as the owner on the Department of Buildings (DOB) website. There has been no activity and no permits issued for the address. 8Apr2010 Con Edison is unable to locate the owner for information since building was vacated. DOB website checked for issuance of new permits. 03Sep2013 David Duke of Con Edison's EH&S Response Team searched the Internet and found that the building is in foreclosure via the Royal Bank of Scotland-RBS Securities. A newspaper article described the situation as fallout from the 2008 real-estate crash. Con Edison's request is under review. Reviewed PBS registration for 111 Leroy Street, 2-608656. 1,500 gallon UST, #2 fuel oil, no installation date; no filing for temporarily out of service or closure; registration expired 3/26/2008; overdue for tank tightness report (6/17/2008). Based on information included in separate, prior spill report, the tank was re-lined in 2003. Based on-line NYC ACRIS

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

111 LEROY ST (Continued)

S105998775

database, the property changed ownership from that included with the PBS registration (per ACRIS, KMG PMA LEROY, LLC). Referred PBS case to PBS unit for follow-up on PBS compliance issues and tagging as recommended above by Con Edison. No information found for any foreclosure process as indicated above by Con Edison for this property. (JOC)10/23/13 - based on information provided, the spill was promptly remediated, and the fill line was repaired. However, Con Edison did not conduct testing of the fill line as was previously requested by the Department, due to an inability to get access to the tank. In that the entire tank system, rather than just the fill line, now needs testing by the tank owner per PBS regulations, there is no reason at this point to continue to require Con Edison to test just the fill line. As noted above, regional PBS staff are working on resolving the PBS compliance issues. The facility PBS number has been cross referenced into this spill record. (JOC)

Remarks: CON ED DID THE DIGGING AND HIT THE OIL LINE ;; CON ED WILL CLEAN UP: 204253.

Material:

Site ID: 376595
Operable Unit ID: 1134167
Operable Unit: 01
Material ID: 2124027
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 10
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

NPL
Region
West
1/8-1/4
1231 ft.

HUDSON RIVER PCBs
NO STREET APPLICABLE
HUDSON RIVER, NY 12801

NPL 1000384273
CERCLIS NYD980763841
RCRA-LQG
US ENG CONTROLS
US INST CONTROL
CONSENT
ROD
FINDS
NY Spills
PRP

NPL:

EPA ID: NYD980763841
EPA Region: 02
Federal: N
Final Date: 1984-09-21 00:00:00

Category Details:

NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-<= 10 Feet
Category Value: 0

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

Site Details:

Site Name: HUDSON RIVER PCBS
Site Status: Final
Site Zip: 12801
Site City: HUDSON RIVER
Site State: NY
Federal Site: No
Site County: WASHINGTON
EPA Region: 02
Date Proposed: 09/08/83
Date Deleted: Not reported
Date Finalized: 09/21/84

Substance Details:

NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: A046
Substance: POLYCHLORINATED BIPHENYLS
CAS #: 1336-36-3
Pathway: AIR PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: A046
Substance: POLYCHLORINATED BIPHENYLS
CAS #: 1336-36-3
Pathway: SURFACE WATER PATHWAY
Scoring: 4

Summary Details:

Conditions at listing September 1983): The Hudson River PCBs Site is a 40-mile stretch of the Hudson River between Mechanicville and Fort Edward, New York. General Electric Co. discharged an estimated 1.1 million pounds of PCBs into this stretch of river. The State has identified 40 hot spots, defined as sediments contaminated with greater than 50 parts per million (ppm) of PCBs. Also included in the site are five remnant areas, which are river sediments exposed when the level of the river was lowered due to removal of the Fort Edward Dam. The State has taken initial measures to stabilize the remnant areas from erosion. In September 1980, Congress passed an amendment to the Clean Water Act (CWA) that included the Hudson River PCB Reclamation Demonstration Project. Under this legislation, the EPA Administrator could authorize a 75 percent grant, not to exceed 20 million. EPA issued a final Environmental Impact Statement in October 1982 evaluating various dredging alternatives for a demonstration project. EPA has prepared a feasibility study to evaluate alternative remedial actions under CERCLA. The Administrator has determined that CERCLA funds may be used for remedial action

Map ID
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Database(s)

EDR ID Number
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HUDSON RIVER PCBS (Continued)

1000384273

at the remnant areas and for evaluating the effectiveness of the water supply system at Waterford, New York. Status June 1984): EPA has completed a draft feasibility study identifying alternatives for remedial action. A search for parties potentially responsible for wastes associated with the site has been completed, and EPA has sent letters to two potentially responsible parties notifying them of possible legal action under CERCLA.

Site Status Details:

NPL Status: Final
Proposed Date: 09/08/1983
Final Date: 09/21/1984
Deleted Date: Not reported

Narratives Details:

NPL Name: HUDSON RIVER PCBS
City: HUDSON RIVER
State: NY

CERCLIS:

Site ID: 0202229
EPA ID: NYD980763841
Facility County: WASHINGTON
Short Name: HUDSON RIVER PCBS
Congressional District: 21
IFMS ID: 0284
SMSA Number: 2975
USGC Hydro Unit: 02020003
Federal Facility: Not a Federal Facility
DMNSN Number: 0.00000
Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 02
Classification: Waterways/Creeks/Rivers
Site Settings Code: SU
NPL Status: Currently on the Final NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Not reported
Non NPL Status Date: / /
Site Fips Code: 36115
CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):

Contact ID: 13002796.00000
Contact Name: JENNIFER LAPOMA
Contact Tel: (212) 637-4328

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):

Alias ID: 101
Alias Name: HUDSON RIVER PCBS
Alias Address: Not reported
WARREN, NY
Alias ID: 102
Alias Name: HUDSON RIVER PCBS
Alias Address: NO STREET APPLICABLE
NO CITY APPLICABLE, NY 12801
Alias ID: 103
Alias Name: HUDSON RIVER PCBS
Alias Address: NO STREET APPLICABLE
HUDSON RIVER, NY 12801
Alias Comments: Not reported

Site Description: The Hudson River PCBs Site includes a nearly 200 river-mile stretch of the Hudson River in eastern New York State from the Village of Hudson Falls to the Battery in New York City. The Hudson River has been designated an American Heritage River because of its important role in American history and culture. This federal Superfund Record of Decision (ROD) addresses the risks to people and ecological receptors associated with polychlorinated biphenyls (PCBs) in the in-place sediments of the Upper Hudson River. The Site is divided into the Upper Hudson River which is the length of river between Hudson Falls and the Federal Dam at Troy, New York and the Lower Hudson River which is the length of river between Federal Dam at Troy and the Battery. For purposes of this project, EPA further divided the Upper Hudson River area into three main sections known as River Section 1, River Section 2, and River Section 3. The Site also includes five Remnant Deposits, which are areas of PCB-contaminated sediment that became exposed after the river water level dropped following removal of the Fort Edward Dam in 1973. The Upper Hudson River portion of the Site extends from the Fenimore Bridge in Hudson Falls to the Federal Dam at Troy, a distance of just over 43 river miles. The Lower Hudson River extends from the Federal Dam to the southern tip of Manhattan at the Battery in New York City. The Mid-Hudson River, which is primarily a subset of the Lower Hudson River, extends from the Federal Dam at Troy to just south of Poughkeepsie. The predominant sources of PCB contamination to the Upper Hudson River were two capacitor manufacturing plants owned and operated by GE. The plants are located adjacent to or near the Hudson River in the Village of Hudson Falls and the Town of Fort Edward. Over a 30-year period, the plants discharged a substantial amount of PCBs into the river. At the GE Hudson Falls plant, leakage of non-aqueous phase PCB-bearing oils through bedrock to the river continues to be a source of PCB contamination. Regarding the former outfall to the Hudson River from the GE Fort Edward plant, New York State Department of Environmental Conservation (NYSDEC) issued a Record of Decision in January 2000 that calls for the excavation of PCB-contaminated soil and sediment in this area of the Upper Hudson River shoreline in order to eliminate this source of PCBs to the river. EPA's analysis assumes a significantly reduced PCB loading to the river from these sources once the State's plans for remediation are implemented. PCBs, the chemicals of concern addressed in this decision document, have been classified by EPA as probable human carcinogens. They are also linked to other serious non-cancer adverse health effects based on observations in animals and emerging evidence in humans. Once discharged from the GE plants, the PCBs adhered to river sediment and accumulated downstream as they settled in impounded pools and other depositional areas. Historic fish and sediment data indicated PCBs were

HUDSON RIVER PCBs (Continued)

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accumulating downstream of the old Fort Edward Dam as well as accumulating behind the dam. The removal of the dam in 1973 resulted in a remobilization and downstream distribution of PCBs that had accumulated behind the dam. Historically, the highest PCB sediment concentrations have been detected in the cohesive sediments within the Upper Hudson River. River scouring/ erosion and other mechanisms have mobilized PCB- contaminated sediments from the extensive cohesive deposits, redepositing them farther downstream all the way to the Battery. The preponderance of data indicates that burial of contaminated sediment by cleaner materials is not universally or uniformly occurring. Data also indicate that contaminated sediments in River Sections 1, 2 and 3 continue to serve as the major source of PCBs to the water column and the fish within the Upper Hudson River. During an approximate 30-year period ending in 1977, PCBs were used in capacitor manufacturing operations Hudson Falls and Fort Edward, New York facilities. PCB oils were discharged both directly and indirectly from these plants into the Hudson River. This included both non-permitted and permitted discharges. Even after permits were received in 1975, permit exceedances occurred. Estimates of the total quantity of PCBs discharged directly from the two plants into the river from the 1940s to 1977 are as high as 1,330,000 pounds (about 605,000 kg). Many of the PCBs discharged to the river adhered to sediments and accumulated with the sediments as they settled in the impounded pool behind the Fort Edward Dam, as well as other depositional areas farther downstream. Because of its deteriorating condition, the Fort Edward Dam was removed in 1973. Five areas of PCB-contaminated sediments were exposed due to the lowering of the river water level when the Fort Edward Dam was removed. These five areas are known as the Remnant Deposits. During subsequent floods, PCB-contaminated sediments from the Fort Edward Dam area were scoured and transported downstream. EPA notified the company that had the two plants of the remedy selected in the 1984 ROD and offered the company the opportunity to implement the selected remedy with respect to the Remnant Deposits and the Waterford drinking water supply evaluation. The company declined EPA's offer. NYSDEC, with funding provided by EPA, conducted the evaluation at the Waterford Water Works. In addition, NYSDEC prepared a design for the in-place containment of the Remnant Deposits. This design was completed in 1988. In March 1989, the company offered to assume responsibility for the implementation of the in-place containment remedy for the Remnant Deposits. EPA issued a September 27, 1989 Administrative Order on Consent to the company which required the company to prepare a remedial design report for the construction of access roads to the Remnant Deposits and to submit a design for the in-place containment of the Remnant Deposits incorporating the NYSDEC-prepared design, plus any EPA-approved refinements to that design. EPA also issued a September 27, 1989 Administrative Order to the company requiring the company to construct and maintain the access roads to the Remnant Deposits. The company constructed the in-place containment of the Remnant Deposits under a 1990 Consent Decree with EPA. EPA will evaluate the need for further remedial action for the Remnant Deposits after completion of a 5-year review of the Remnant Deposit containment remedy, performed pursuant to CERCLA §121(c). The company's manufacturing plants in Hudson Falls and Fort Edward are listed under the New York State Inactive Hazardous Waste Disposal Sites Remedial program. The company currently is conducting remedial activities near the Hudson Falls and Fort Edward plants pursuant to Orders on Consent with NYSDEC. The company has thus far declined to implement the January 2000 NYSDEC Record of Decision for the Fort Edward plant Outfall 004. The NYSDEC is conducting the remedial design for that ROD. As one of America's great rivers, the Hudson has played and will continue to play a major role in the history, culture, and economy of the area. The Hudson has been designated an American Heritage River because of its important role in American history and culture. Current and reasonably-anticipated future land use and surface water

HUDSON RIVER PCBS (Continued)

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use are described below. Current land use includes a variety of residential, commercial and industrial activities. Use of the river and lands surrounding the river are projected to remain the same. At this time, no changes in future land use are known, nor are any new uses expected. The Site passes through 14 different counties as the river flows to its final discharge point in New York Harbor. Four counties (Albany, Washington, Rensselaer, and Saratoga) lie adjacent to the more highly contaminated portions (areas of proposed active remediation in River Sections 1, 2 and 3) of the Upper Hudson River between Troy (Federal Dam) and Hudson Falls. Within these four counties, forests and farmlands surround urban centers and historic villages. There are apple orchards and dairy farms, parks, nature preserves and gardens. In addition to the GE Hudson Falls and Fort Edward plants, the area is home to technology companies, oil service companies and food companies. Saratoga and Washington Counties have experienced population growth between 1990 and 1999 of 10.2 percent and 1.4 percent, respectively, while Rensselaer and Albany Counties have experienced population declines of 1.9 percent and 0.3 percent, respectively. Total population of these four counties, according to July 1999 estimates by the US Department of Commerce Bureau of the Census, is just under 700,000. Warren County, in which the City of Glens Falls is located, has a population of just over 60,000 and is just to the northwest of the Hudson River PCBs Site. A Record of Decision (ROD) addressing operable unit 1 (OU 01) was completed in September 1984. A Record of Decision addressing OU 2 was completed in February 2002.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: / /
Date Completed: 07/01/83
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: SITE INSPECTION
Date Started: 08/01/83
Date Completed: 09/01/83
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/01/83
Priority Level: Low priority for further assessment

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
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HUDSON RIVER PCBS (Continued)

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Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 09/08/83
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: / /
Date Completed: 11/15/83
Priority Level: Search Complete, Viable PRPs
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started: / /
Date Completed: 09/21/84
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 03/30/84
Date Completed: 09/25/84
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 09/25/84
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 10/27/83
Date Completed: 09/28/84
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: ADMINISTRATIVE/VOLUNTARY COST RECOVERY
Date Started: / /
Date Completed: 05/04/88
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMEDIAL DESIGN
Date Started: 02/02/89
Date Completed: 06/05/89
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Original Action Take Over

For detailed financial records, contact EDR for a Site Report.:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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Action Code: 003
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 06/09/89
Date Completed: 09/27/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Alternate
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 06/09/89
Date Completed: 09/27/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 09/27/89
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 09/27/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 03/03/89

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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Date Completed: 04/06/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Alternate
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMEDIAL DESIGN
Date Started: 09/28/84
Date Completed: 05/18/90
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: State, Fund Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Original Action Take Over

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: Lodged By DOJ
Date Started: / /
Date Completed: 05/18/90
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: CONSENT DECREE
Date Started: 04/06/90
Date Completed: 07/21/90
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL ASSESSMENT
Date Started: 04/17/90
Date Completed: 08/21/90
Priority Level: Stabilized
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 09/27/89
Date Completed: 09/28/90
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: New Action Resulting from Take Over

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: 03/12/90
Date Completed: 10/04/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Alternate
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 05/18/89
Date Completed: 01/07/91
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: New Action Resulting from Take Over

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 10/13/89
Date Completed: 09/29/92
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 09/28/90
Date Completed: 09/29/92
Priority Level: Not reported
Operable Unit: REMNANT DEPOSIT CAPPING
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMOVAL ASSESSMENT
Date Started: 11/19/92
Date Completed: 12/01/92
Priority Level: Stabilized
Operable Unit: ROGER'S ISLAND
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: COMFORT/STATUS LETTER
Date Started: / /
Date Completed: 11/02/98
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: REMOVAL ASSESSMENT
Date Started: 10/14/98
Date Completed: 01/07/99
Priority Level: Not reported
Operable Unit: ROGER'S ISLAND
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: REMOVAL ASSESSMENT
Date Started: 06/03/98
Date Completed: 06/24/99
Priority Level: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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Operable Unit: ROGER'S ISLAND
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: Public Notice Published
Date Started: / /
Date Completed: 03/28/00
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL
Date Started: 10/06/99
Date Completed: 09/14/01
Priority Level: Stabilized
Operable Unit: ROGER'S ISLAND
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 07/25/90
Date Completed: 02/01/02
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 02/01/02
Priority Level: Final Remedy Selected at Site
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: Special Notice Issued
Date Started: / /
Date Completed: 02/04/02
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: Special Notice Issued
Date Started: / /
Date Completed: 02/04/02
Priority Level: Not reported
Operable Unit: FLOODPLAINS OU
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: Special Notice Issued
Date Started: / /
Date Completed: 02/04/02
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 02/04/02
Date Completed: 07/23/02
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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Action Code: 002
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 07/23/02
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 006
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 07/23/02
Date Completed: 08/13/03
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 08/13/03
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: EXPANDED SITE INSPECTION/REMEDIAL INVESTIGATION
Date Started: / /
Date Completed: 08/31/05
Priority Level: Referred to Removal, no further Rmdl Asmt
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 007
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 02/04/02

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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Date Completed: 09/06/05
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: TECHNICAL ASSISTANCE GRANT
Date Started: 09/29/95
Date Completed: 09/20/05
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: Lodged By DOJ
Date Started: / /
Date Completed: 10/06/05
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: COMMUNITY INVOLVEMENT
Date Started: 03/25/02
Date Completed: 11/02/06
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Remedial
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: CONSENT DECREE
Date Started: 09/06/05
Date Completed: 11/02/06
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Federal Enforcement
Planning Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

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Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 03/29/07
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: STATE SUPPORT AGENCY COOPERATIVE AGREEMENT
Date Started: 02/22/91
Date Completed: 04/03/07
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL NEGOTIATIONS
Date Started: / /
Date Completed: 07/11/07
Priority Level: Not reported
Operable Unit: FLOODPLAINS OU
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 07/11/07
Priority Level: Not reported
Operable Unit: FLOODPLAINS OU
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY EMERGENCY REMOVAL
Date Started: 08/24/07
Date Completed: 08/27/07
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Emergency
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 08/14/03
Date Completed: 01/25/08
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Phased Start

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: SECTION 104(E) REF LITIGATION
Date Started: 09/27/07
Date Completed: 07/28/08
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 09/05/08
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 09/05/08

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started: 02/04/02
Date Completed: 09/08/08
Priority Level: Not reported
Operable Unit: FLOODPLAINS OU
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 006
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 09/08/08
Priority Level: Not reported
Operable Unit: FLOODPLAINS OU
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 09/11/08
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 006
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 10/14/08
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 007
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 02/03/09
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMEDIAL ACTION
Date Started: 05/09/08
Date Completed: 11/24/09
Priority Level: Final RA Report
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Special Account Financed Action - EPA
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: REMEDIAL ACTION
Date Started: 12/04/08
Date Completed: 12/23/09
Priority Level: Final RA Report
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Special Account Financed Action - EPA
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 006
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 08/14/03
Date Completed: 04/26/11
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started: 09/11/07
Date Completed: 04/10/12
Priority Level: Stabilized
Operable Unit: FLOODPLAINS OU
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Time Critical
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: FIVE-YEAR REVIEW
Date Started: / /
Date Completed: 06/01/12
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 09/06/05
Date Completed: 09/04/12
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: TECHNICAL ASSISTANCE
Date Started: 09/30/97
Date Completed: / /
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: REMEDIAL DESIGN
Date Started: 02/15/02
Date Completed: / /
Priority Level: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Special Account Financed Action - EPA
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Other Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/23/02
Date Completed: / /
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Phased Start & Completion

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: TECHNICAL ASSISTANCE
Date Started: 07/08/03
Date Completed: / /
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMEDIAL ACTION
Date Started: 01/19/07
Date Completed: / /
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Special Account Financed Action - State
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Other Start and Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REAL PROPERTY ACQUISITION
Date Started: 02/15/08
Date Completed: / /
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Not reported
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 09/08/08
Date Completed: / /
Priority Level: Not reported
Operable Unit: FLOODPLAINS OU
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: TECHNICAL ASSISTANCE GRANT
Date Started: 11/17/09
Date Completed: / /
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 12/31/10
Date Completed: / /
Priority Level: Not reported
Operable Unit: REASSESSMENT RIVER
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Federal Register Details:

Fed Register Date: 09/21/84
Fed Register Volume: 49
Page Number: 37070

Fed Register Date: 09/08/83
Fed Register Volume: 48
Page Number: 40674

[Click this hyperlink](#) while viewing on your computer to access 3292 additional US CERCLIS Financial: record(s) in the EDR Site Report.

RCRA-LQG:

Date form received by agency: 03/01/2012
Facility name: GE HUDSON RIVER SEDIMENT REMEDIATION PROCESSING AND TRANSPORTATION FACILITY
Facility address: 446 LOCK 8 WAY
HUDSON FALLS, NY 12839

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

EPA ID: NYD980763841
Mailing address: BROADWAY, BLDG 40
FORT EDWARD, NY 12828
Contact: ROBERT G GIBSON
Contact address: BROADWAY, BLDG 40
FORT EDWARD, NY 12828
Contact country: US
Contact telephone: (518) 746-5253
Contact email: BOB.GIBSON@GE.COM
EPA Region: 02
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: GENERAL ELECTRIC COMPANY
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 04/23/2007
Owner/Op end date: Not reported

Owner/operator name: SEE SECTION 11 COMMENTS
Owner/operator address: Not reported
NY
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: State
Owner/Operator Type: Owner
Owner/Op start date: 05/02/2007
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 03/03/2010
Facility name: GE HUDSON RIVER SEDIMENT REMEDIATION PROCESSING AND TRANSPORTATION FACILITY
Classification: Large Quantity Generator

Date form received by agency: 08/29/2008
Facility name: GE HUDSON RIVER SEDIMENT REMEDIATION PROCESSING AND TRANSPORTATION FACILITY
Site name: HUDSON RIVER PCBS (ROGERS ISLAND) SUPERFUND USEPA
Classification: Large Quantity Generator

Date form received by agency: 01/01/2007
Facility name: GE HUDSON RIVER SEDIMENT REMEDIATION PROCESSING AND TRANSPORTATION FACILITY
Site name: HUDSON RIVER PCBS (ROGERS ISLAND) USEPA
Classification: Not a generator, verified

Date form received by agency: 01/01/2006
Facility name: GE HUDSON RIVER SEDIMENT REMEDIATION PROCESSING AND TRANSPORTATION FACILITY
Site name: HUDSON RIVER PCBS (ROGERS ISLAND) USEPA
Classification: Not a generator, verified

Date form received by agency: 01/01/2001
Facility name: GE HUDSON RIVER SEDIMENT REMEDIATION PROCESSING AND TRANSPORTATION FACILITY
Site name: HUDSON RIVER PCBS (ROGERS ISLAND) USEPA
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: B002
Waste name: B002

Waste code: B007
Waste name: B007

Violation Status: No violations found

US ENG CONTROLS:

EPA ID: NYD980763841
Site ID: 0202229
Name: HUDSON RIVER PCBS
Address: NO STREET APPLICABLE
HUDSON RIVER, NY 12801

EPA Region: 02
County: WASHINGTON
Event Code: Not reported
Actual Date: 12/30/2001

Action ID: 001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Action Name: RECORD OF DECISION
Action Completion date: 09/25/1984
Operable Unit: 01
Contaminated Media : Sediment
Engineering Control: Containment, (N.O.S.)

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/25/1984
Operable Unit: 01
Contaminated Media : Sediment
Engineering Control: No Action

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/25/1984
Operable Unit: 01
Contaminated Media : Sediment
Engineering Control: Revegetation

Action ID: 001
Action Name: RECORD OF DECISION
Action Completion date: 09/25/1984
Operable Unit: 01
Contaminated Media : Sediment
Engineering Control: Slope Stabilization

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 02/01/2002
Operable Unit: 02
Contaminated Media : Sediment
Engineering Control: Dewatering

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 02/01/2002
Operable Unit: 02
Contaminated Media : Sediment
Engineering Control: Disposal

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 02/01/2002
Operable Unit: 02
Contaminated Media : Sediment
Engineering Control: Excavation

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 02/01/2002
Operable Unit: 02
Contaminated Media : Sediment
Engineering Control: Solidification/Stabilization (Ex-Situ)

Action ID: 002
Action Name: RECORD OF DECISION

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Action Completion date: 02/01/2002
Operable Unit: 02
Contaminated Media : Surface Water
Engineering Control: Monitoring

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 02/01/2002
Operable Unit: 02
Contaminated Media : Surface Water
Engineering Control: Natural Attenuation

US INST CONTROL:

EPA ID: NYD980763841
Site ID: 0202229
Name: HUDSON RIVER PCBS
Action Name: RECORD OF DECISION
Address: NO STREET APPLICABLE
HUDSON RIVER, NY 12801
EPA Region: 02
County: WASHINGTON
Event Code: Not reported
Inst. Control: Fishing Advisory
Actual Date: 12/30/2001
Comple. Date: 02/01/2002
Operable Unit: 02
Contaminated Media : Surface Water

CONSENT:

EPA ID: NYD980763841
Site ID: 0284
Case Title: U.S.V. GENERAL ELECTRIC COMPANY (HUDSON RIVER) (EPA-SUPERFUND)
Court Num: 05-1270
District: New York, North
Entered Date: 11/02/06
Full-text of the consent decree for this site issued by the United States District Court is available from EDR. Contact your EDR Account Executive.

ROD:

Full-text of USEPA Record of Decision(s) is available from EDR.

FINDS:

Registry ID: 110009302879

Environmental Interest/Information System

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and at Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

SPILLS:

Facility ID: 0308107
Facility Type: ER
DER Facility ID: 278391
Site ID: 237813
DEC Region: 3
Spill Date: 10/31/2003
Spill Number/Closed Date: 0308107 / 10/31/2003
Spill Cause: Abandoned Drums
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 6000
Investigator: rxamato
Referred To: Not reported
Reported to Dept: 10/31/2003
CID: 297
Water Affected: HUDSON RIVER
Spill Source: Unknown
Spill Notifier: Federal Government
Cleanup Ceased: Not reported
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 10/31/2003
Spill Record Last Update: 11/6/2003
Spiller Name: Not reported
Spiller Company: UNKNOWN
Spiller Address: Not reported
Spiller City,St,Zip: ZZ -
Spiller Company: 001
Contact Name: PETTY OFFICER HAWKINS
Contact Phone: (718) 354-4121
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "SMITH"10/31/03: MEG hired by USCG to remove test and dispose. Container did not leak.
Remarks: CALL TO NRC REPORTING A 55 GALLON DRUM OF UNKNOWN PETROLEUM FLOATING - USCG IS REPOSNDING TO THE SITE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HUDSON RIVER PCBS (Continued)

1000384273

Material:

Site ID: 237813
Operable Unit ID: 874400
Operable Unit: 01
Material ID: 501630
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: 55
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

PRP:

PRP name: DELAWARE AND HUDSON RAILWAY CO INC
GENERAL ELECTRIC COMPANY
GOLUB PROPERTIES OF WATERVLIET INC
NEW YORK STATE CANAL CORPORATION
NIAGARA MOHAWK POWER COMPANY
TOWN OF HALFMOON NEW YORK
VILLAGE OF STILLWATER
WATER COMMISSIONERS OF THE TOWN OF WATERFORD

A4
SW
< 1/8
0.021 mi.
111 ft.

TECHNICOLOR EAST COAST INC
110 LEROY ST
NEW YORK, NY 10014
Site 4 of 9 in cluster A

RCRA-SQG 1012187020
NYR000168849

Relative:
Lower

RCRA-SQG:
Date form received by agency: 09/16/2009
Facility name: TECHNIColor EAST COAST INC
Facility address: 110 LEROY ST
NEW YORK, NY 10014
EPA ID: NYR000168849
Mailing address: LEROY ST
NEW YORK, NY 10014
Contact: RICHARD SKEETE
Contact address: LEROY ST
NEW YORK, NY 10014
Contact country: US
Contact telephone: (212) 886-5200
Telephone ext.: 5274
Contact email: RICHARD.SKEETE@TECHNICOLOR.COM

Actual:
13 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

1012187020

EPA Region: 02
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: TECHNICOLOR EAST COAST INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/14/2005
Owner/Op end date: Not reported

Owner/operator name: TECHNICOLOR EAST COAST INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/14/2005
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D011
Waste name: SILVER

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

1012187020

METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 08/25/2011
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

**A5
SW
< 1/8
0.021 mi.
111 ft.**

**TECHNICOLOR EAST COAST INC
110 LEROY ST
MANHATTAN, NY 10014
Site 5 of 9 in cluster A**

**NY MANIFEST S110047335
N/A**

**Relative:
Lower**

NY MANIFEST:
EPA ID: NYR000168849
Country: USA
Mailing Name: TECHNICOLOR EAST COAST INC
Mailing Contact: RICHIE SKEETE
Mailing Address: 110 LEROY ST
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10014
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-886-5200

**Actual:
13 ft.**

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-06-25
Trans1 Recv Date: 2009-06-25
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-06-30
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 2400.0
Units: P - Pounds
Number of Containers: 6.0
Container Type: DM - Metal drums, barrels

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 002491168FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-03-05
Trans1 Recv Date: 2009-03-05
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-03-06
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 900.0
Units: P - Pounds
Number of Containers: 2.0
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 004723657JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 3312.0
Units: P - Pounds
Number of Containers: 7.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520962FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-06-25
Trans1 Recv Date: 2009-06-25
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-06-30
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 2400.0
Units: P - Pounds
Number of Containers: 6.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 002491168FLE
Import Ind: N
Export Ind: N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-03-05
Trans1 Recv Date: 2009-03-05
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-03-06
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 900.0
Units: P - Pounds
Number of Containers: 2.0
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 004723657JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAC300016672
Trans2 State ID: Not reported
Generator Ship Date: 2012-07-05
Trans1 Recv Date: 2012-07-05
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-07-13
Part A Recv Date: Not reported
Part B Recv Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 18.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004162881FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAC300016672
Trans2 State ID: Not reported
Generator Ship Date: 2012-07-05
Trans1 Recv Date: 2012-07-05
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-07-13
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 112.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004162881FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAC300016672
Trans2 State ID: Not reported
Generator Ship Date: 2012-07-05
Trans1 Recv Date: 2012-07-05
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-07-13
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 141.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004162881FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAC300016672
Trans2 State ID: Not reported
Generator Ship Date: 2012-07-05
Trans1 Recv Date: 2012-07-05
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-07-13
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 8.0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Units: P - Pounds
Number of Containers: 1.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004162881FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 16.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 1.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 45.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 2.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 4.0
Units: P - Pounds
Number of Containers: 6.0
Container Type: CY - Cylinders
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 78.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 108.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 132.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 109.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 398.0
Units: P - Pounds
Number of Containers: 3.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0
Year: 2012
Manifest Tracking Num: 004520961FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: Y
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2012-03-28
Trans1 Recv Date: 2012-03-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2012-03-29
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000168849
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 378.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 1.0

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TECHNICOLOR EAST COAST INC (Continued)

S110047335

Year: 2012
 Manifest Tracking Num: 004520961FLE
 Import Ind: N
 Export Ind: N
 Discr Quantity Ind: Y
 Discr Type Ind: Y
 Discr Residue Ind: N
 Discr Partial Reject Ind: N
 Discr Full Reject Ind: N
 Manifest Ref Num: Not reported
 Alt Fac RCRA Id: Not reported
 Alt Fac Sign Date: Not reported
 Mgmt Method Type Code: H141

[Click this hyperlink](#) while viewing on your computer to access
 26 additional NY_MANIFEST: record(s) in the EDR Site Report.

A6
ESE
< 1/8
0.022 mi.
117 ft.

421 HUDSON AT LEROY ST
421 HUDSON AT LEROY ST
NEW YORK CITY, NY
Site 6 of 9 in cluster A

NY Spills S102148322
N/A

Relative:
Higher

SPILLS:
 Facility ID: 9403024
 Facility Type: ER
 DER Facility ID: 126946
 Site ID: 149206
 DEC Region: 2
 Spill Date: 5/27/1994
 Spill Number/Closed Date: 9403024 / 6/1/1994
 Spill Cause: Deliberate
 Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. No DEC Response. No corrective action required.

SWIS: 3101
 Investigator: KSTANG
 Referred To: Not reported
 Reported to Dept: 6/1/1909
 CID: Not reported
 Water Affected: Not reported
 Spill Source: Commercial Vehicle
 Spill Notifier: Federal Government
 Cleanup Ceased: 6/1/1994
 Cleanup Meets Std: True
 Last Inspection: Not reported
 Recommended Penalty: False
 UST Trust: False
 Remediation Phase: 0
 Date Entered In Computer: 7/25/1994
 Spill Record Last Update: 7/25/1994
 Spiller Name: Not reported
 Spiller Company: AMERI KEM VEHICLE
 Spiller Address: Not reported
 Spiller City,St,Zip: ZZ
 Spiller Company: 001
 Contact Name: Not reported
 Contact Phone: Not reported

Actual:
14 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

421 HUDSON AT LEROY ST (Continued)

S102148322

DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TANG"10/10/95: This is additional information about material spilled from the translation of the old spill file: UNKNOWN SUBSTANCE.
Remarks: ANNONYMOUS SAID TRUCK WAS BUMPING INTO SEWER. SPILL #9403006 -IWCS WILL INVESTIGATE -MAY BE RELATED TO THIS SPILL. VIA U.S.C.G. OBSERVATION.

Material:
Site ID: 149206
Operable Unit ID: 996824
Operable Unit: 01
Material ID: 383193
Material Code: 0066A
Material Name: UNKNOWN PETROLEUM
Case No.: Not reported
Material FA: Petroleum
Quantity: -1
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

A7
ESE
< 1/8
0.022 mi.
117 ft.

PRINTING HOUSE
421 HUDSON STREET
NEW YORK, NY 10014

Site 7 of 9 in cluster A

NY AST **U003391398**
N/A

Relative:
Higher

AST:
Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-370355
Program Type: PBS
UTM X: 583893.29620999994
UTM Y: 4509278.3559900001
Expiration Date: 2008/03/28
Site Type: Apartment Building/Office Building

Actual:
14 ft.

Affiliation Records:
Site Id: 18703
Affiliation Type: Facility Owner
Company Name: MOUNTBATTEN EQUITIES
Contact Type: Not reported
Contact Name: Not reported
Address1: 421 HUDSON STREET
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10014
Country Code: 001
Phone: (212) 243-1320
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PRINTING HOUSE (Continued)

U003391398

Date Last Modified: 3/4/2004

Site Id: 18703
Affiliation Type: Mail Contact
Company Name: MOUNTBATTEN EQUITIES
Contact Type: Not reported
Contact Name: GLORIA L. PICA, MG. AGENT
Address1: 421 HUDSON STREET
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10014
Country Code: 001
Phone: (212) 243-1320
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 18703
Affiliation Type: On-Site Operator
Company Name: PRINTING HOUSE
Contact Type: Not reported
Contact Name: SUPER- M SHEIKH
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 243-1320
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 18703
Affiliation Type: Emergency Contact
Company Name: MOUNTBATTEN EQUITIES
Contact Type: Not reported
Contact Name: M. SHEIKH
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 924-9378
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Tank Info:

Tank Number: 004
Tank Id: 21400

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PRINTING HOUSE (Continued)

U003391398

Material Code: 0001
 Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

A00 - Tank Internal Protection - None
 D01 - Pipe Type - Steel/Carbon Steel/Iron
 J02 - Dispenser - Suction Dispenser
 L09 - Piping Leak Detection - Exempt Suction Piping
 F00 - Pipe External Protection - None
 I04 - Overfill - Product Level Gauge (A/G)
 K01 - Spill Prevention - Catch Basin
 C01 - Pipe Location - Aboveground
 H00 - Tank Leak Detection - None
 G03 - Tank Secondary Containment - Vault (w/o access)
 B00 - Tank External Protection - None

Tank Location: 1
 Tank Type: Steel/Carbon Steel/Iron
 Tank Status: In Service
 Pipe Model: Not reported
 Install Date: 12/01/1974
 Capacity Gallons: 10000
 Tightness Test Method: NN
 Date Test: Not reported
 Next Test Date: Not reported
 Date Tank Closed: Not reported
 Register: True
 Modified By: TRANSLAT
 Last Modified: 03/04/2004
 Material Name: #2 Fuel Oil (On-Site Consumption)

A8
 ESE
 < 1/8
 0.022 mi.
 117 ft.

BASEMENT
421 HUDSON ST APT 406
NEW YORK, NY
 Site 8 of 9 in cluster A

NY Spills S109414620
 N/A

Relative:
 Higher

SPILLS:
 Facility ID: 0811582
 Facility Type: ER
 DER Facility ID: 358416
 Site ID: 409160
 DEC Region: 2
 Spill Date: 1/21/2009
 Spill Number/Closed Date: 0811582 / 1/22/2009
 Spill Cause: Equipment Failure
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
 SWIS: 3101
 Investigator: vszhune
 Referred To: Not reported
 Reported to Dept: 1/21/2009
 CID: Not reported
 Water Affected: Not reported
 Spill Source: Private Dwelling
 Spill Notifier: Other
 Cleanup Ceased: Not reported
 Cleanup Meets Std: False

Actual:
 14 ft.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BASEMENT (Continued)

S109414620

Last Inspection: Not reported
 Recommended Penalty: False
 UST Trust: False
 Remediation Phase: 0
 Date Entered In Computer: 1/21/2009
 Spill Record Last Update: 1/22/2009
 Spiller Name: Not reported
 Spiller Company: EQUIPMENT
 Spiller Address: Not reported
 Spiller City,St,Zip: NY
 Spiller Company: 999
 Contact Name: ERIC STANGEL
 Contact Phone: (917) 363-4515
 DEC Memo: 01/22/09-Zhune called Bryan Depuy from Petro oil (516)686-3291 could not get him. Left a message.01/22/09- Zhune called Eric Stangel(917)363-4515(owner)of apartment 421 Hudson St Apt. 406NY. He said spill happened in my house at Connecticut 45 Hotchkiss lane, Madison Ct 06443 billing comes to my apartment in Manhattan. Spill Closed
 Remarks: new lines installed which were bad causing spill. Clean up has already been done.

Material:

Site ID: 409160
 Operable Unit ID: 1165668
 Operable Unit: 01
 Material ID: 2157085
 Material Code: 0001A
 Material Name: #2 Fuel Oil
 Case No.: Not reported
 Material FA: Petroleum
 Quantity: 1
 Units: Gallons
 Recovered: Not reported
 Resource Affected: Not reported
 Oxygenate: False

Tank Test:

A9
ESE
 < 1/8
 0.022 mi.
 117 ft.

PRINTING HOUSE VALET
421 HUDSON ST
NEW YORK, NY 10014
Site 9 of 9 in cluster A

NY DRYCLEANERS **S110247684**
N/A

Relative:
Higher

DRYCLEANERS:
 Facility ID: DROP SHOP
 Phone Number: Not reported
 Region: 2
 Registration Effective Date: N/A
 Inspection Date: 07MAY16
 Install Date: Not reported
 Drop Shop: Y
 Shutdown: Not reported
 Alternate Solvent: Not reported
 Current Business: DROP SHOP

Actual:
14 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JANE YOUNG RES. (Continued)

S102149525

Tank Test:

Site ID: 200418
Spill Number/Closed Date: 9510397 / 11/20/1995
Spill Date: 11/17/1995
Spill Cause: Tank Overfill
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 3101
Investigator: MMMULQUE
Referred To: Not reported
Reported to Dept: 11/17/1995
CID: 357
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 11/17/1995
Spill Record Last Update: 11/29/1995
Spiller Name: PETER BULLA
Spiller Company: PETRO COMMANDER
Spiller Address: 36-19 19TH AV
Spiller City,St,Zip: ASTORIA, NY
Spiller County: 001
Spiller Contact: NONE
Spiller Phone: (212) 929-0777
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 166779
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN"
Remarks: TANK OVERFILL TO CONCRETE FLOOR

Material:

Site ID: 200418
Operable Unit ID: 1020926
Operable Unit: 01
Material ID: 361320
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 1
Units: Gallons
Recovered: Yes
Resource Affected: Not reported
Oxygenate: False

Tank Test:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JANE YOUNG RES. (Continued)

S102149525

SPILLS:

Facility ID: 9414653
Facility Type: ER
DER Facility ID: 67464
Site ID: 71258
DEC Region: 2
Spill Date: 2/7/1995
Spill Number/Closed Date: 9414653 / 2/7/1995
Spill Cause: Equipment Failure
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS: 3101
Investigator: SMMARTIN
Referred To: Not reported
Reported to Dept: 2/7/1995
CID: Not reported
Water Affected: Not reported
Spill Source: Private Dwelling
Spill Notifier: Affected Persons
Cleanup Ceased: 2/7/1995
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 2/10/1995
Spill Record Last Update: 9/30/2004
Spiller Name: Not reported
Spiller Company: RESIDENT
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MARTINKAT"

Remarks: LEAKING OUT OF TOP TANK, IN BASEMENT SPILL CONTAINED AND CLEANED.

Material:

Site ID: 71258
Operable Unit ID: 1008211
Operable Unit: 01
Material ID: 373388
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 6
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

11
 South
 < 1/8
 0.032 mi.
 167 ft.

CEMENT FLOOR - BASEMENT
421 HUDSON STREET
MANHATTEN, NY

NY Spills S111457414
N/A

Relative:
Higher

Actual:
14 ft.

SPILLS:
 Facility ID: 1111652
 Facility Type: ER
 DER Facility ID: 414010
 Site ID: 459561
 DEC Region: 2
 Spill Date: 1/3/2012
 Spill Number/Closed Date: 1111652 / 8/2/2012
 Spill Cause: Equipment Failure
 Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

SWIS:
 3101
 Investigator: RMPIPER
 Referred To: Not reported
 Reported to Dept: 1/3/2012
 CID: Not reported
 Water Affected: Not reported
 Spill Source: Private Dwelling
 Spill Notifier: Other
 Cleanup Ceased: Not reported
 Cleanup Meets Std: False
 Last Inspection: Not reported
 Recommended Penalty: False
 UST Trust: False
 Remediation Phase: 0
 Date Entered In Computer: 1/3/2012
 Spill Record Last Update: 8/2/2012
 Spiller Name: PETE
 Spiller Company: UNKNOWN
 Spiller Address: 421 HUDSON STREET
 Spiller City,St,Zip: MANHATTEN, NY
 Spiller Company: 999
 Contact Name: PETE
 Contact Phone: (718) 855-7272
 DEC Memo: ORB Management Limited Printing House 421 Hudson St. NY, NY 10014 \212-243-1320 x 233 Fax- 7305 Met Mohiuddin Sheikh, operations manager. Mobile- 917-856-4021 As per conversation tank was gauged prior to delivery at 4690 gal. Dleivery ticket said 5350.= 10040 in a 10K tank. No spill out vent. Spill noticed in AM inspection. oil noticed on floor trench and sump. tank read 7600 gal. Tank room i apparently epoxy painted though it leaked. I did not get inside as it was too messy. Riteway was on scene pumping out remaining oil. Will powerwash when completed. Sand dike made in trench to prevent futher oil from entering. Sump pump was turned off. Will reinspect when clean to find pathway from tank room to boiler room. DEP notified. 10400-7600 - 400(fuel burn)= ~1900 gal lost. 1/4/12- DECPiper inspected site. Most of oil is cleaned. Will reinspect later. 7/24/12- DECPiper reinspected site. Floor has been cleaned and epoxy painted. Spill closed.

Remarks:
 Clean up underway

Material:
 Site ID: 459561
 Operable Unit ID: 1209650
 Operable Unit: 01

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CEMENT FLOOR - BASEMENT (Continued)

S111457414

Material ID: 2207159
Material Code: 0002A
Material Name: #4 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 100
Units: Gallons
Recovered: Not reported
Resource Affected: Not reported
Oxygenate: False

Tank Test:

12
WSW
< 1/8
0.038 mi.
199 ft.

609 GREENWICH ST
609 GREENWICH ST
NEW YORK, NY

NY Spills S107787137
N/A

Relative:
Lower

SPILLS:

Actual:
13 ft.

Facility ID: 0600251
Facility Type: ER
DER Facility ID: 312454
Site ID: 362217
DEC Region: 2
Spill Date: 4/7/2006
Spill Number/Closed Date: 0600251 / 4/10/2006
Spill Cause: Unknown
Spill Class: Not reported
SWIS: 3101
Investigator: rvketani
Referred To: Not reported
Reported to Dept: 4/7/2006
CID: 407
Water Affected: Not reported
Spill Source: Unknown
Spill Notifier: Fire Department
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 4/7/2006
Spill Record Last Update: 4/10/2006
Spiller Name: DISPATCHER 187
Spiller Company: Not reported
Spiller Address: 609 GREENWICH ST
Spiller City,St,Zip: NEW YORK, NY
Spiller Company: 001
Contact Name: DISPATCHER 187
Contact Phone: (212) 629-2900
DEC Memo: DEC Ketani took the call - spoke to DEC Jane O'Connell who said to close it.
Remarks: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

609 GREENWICH ST (Continued)

S107787137

Material:
 Site ID: 362217
 Operable Unit ID: 1120320
 Operable Unit: 01
 Material ID: 2109816
 Material Code: 0050A
 Material Name: FREON
 Case No.: Not reported
 Material FA: Other
 Quantity: 30
 Units: Pounds
 Recovered: No
 Resource Affected: Not reported
 Oxygenate: False

Tank Test:

B13
NE
 < 1/8
 0.038 mi.
 202 ft.

435 HUDSON STREET
435 HUDSON STREET
NY, NY 10014

NY AST U003391210
NY HIST AST N/A

Site 2 of 5 in cluster B

Relative:
Higher

AST:
 Region: STATE
 DEC Region: 2
 Site Status: Active
 Facility Id: 2-335347
 Program Type: PBS
 UTM X: 583900.18394000002
 UTM Y: 4509333.94331
 Expiration Date: 2017/11/16
 Site Type: Apartment Building/Office Building

Actual:
15 ft.

Affiliation Records:
 Site Id: 15988
 Affiliation Type: Mail Contact
 Company Name: R. C. W. & V. OF TRINITY CHURCH IN NY
 Contact Type: Not reported
 Contact Name: PETRER A. ST JOHN
 Address1: 75 VARICK ST
 Address2: Not reported
 City: NEW YORK
 State: NY
 Zip Code: 10013
 Country Code: 001
 Phone: (646) 613-9421
 EMail: PSTJOHN@TRINITYWALLSTREET.ORG
 Fax Number: Not reported
 Modified By: MSBAPTIS
 Date Last Modified: 12/20/2012

Site Id: 15988
 Affiliation Type: On-Site Operator
 Company Name: 435 HUDSON STREET
 Contact Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

435 HUDSON STREET (Continued)

U003391210

Contact Name: DINO CELIC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 242-7165
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 15988
Affiliation Type: Emergency Contact
Company Name: R. C. W. & V. OF TRINITY CHURCH IN NY
Contact Type: Not reported
Contact Name: DINO CELIC
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 242-7165
EMail: Not reported
Fax Number: Not reported
Modified By: TRANSLAT
Date Last Modified: 3/4/2004

Site Id: 15988
Affiliation Type: Facility Owner
Company Name: R. C. W. & V. OF TRINITY CHURCH IN NY
Contact Type: ASST VP
Contact Name: PETRER A. ST JOHN
Address1: 74 TRINITY PLACE
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10006
Country Code: 001
Phone: (212) 602-0854
EMail: Not reported
Fax Number: Not reported
Modified By: MSBAPTIS
Date Last Modified: 12/20/2012

Tank Info:

Tank Number: 001
Tank Id: 20959
Material Code: 0003
Common Name of Substance: #6 Fuel Oil (On-Site Consumption)

Equipment Records:

G03 - Tank Secondary Containment - Vault (w/o access)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

435 HUDSON STREET (Continued)

U003391210

B00 - Tank External Protection - None
C00 - Pipe Location - No Piping
F00 - Pipe External Protection - None
I04 - Overfill - Product Level Gauge (A/G)
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
J02 - Dispenser - Suction Dispenser
L09 - Piping Leak Detection - Exempt Suction Piping
3
Tank Location:
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 06/01/1989
Capacity Gallons: 10000
Tightness Test Method: NN
Date Test: Not reported
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: KXTANG
Last Modified: 09/24/2007
Material Name: #6 Fuel Oil (On-Site Consumption)

HIST AST:

PBS Number: 2-335347
SWIS Code: 6201
Operator: DINO CELIC
Facility Phone: (212) 242-7165
Facility Addr2: 435 HUDSON STREET
Facility Type: Not reported
Emergency: DINO CELIC
Emergency Tel: (212) 242-7165
Old PBSNO: Not reported
Date Inspected: Not reported
Inspector: Not reported
Result of Inspection: Not reported
Owner Name: R. C. W. & V. OF TRINITY CHURCH IN NY
Owner Address: 74 TRINITY PLACE
Owner City,St,Zip: NEW YORK, NY 10006
Federal ID: Not reported
Owner Tel: (212) 602-0854
Owner Type: Not reported
Owner Subtype: Not reported
Mailing Contact: Not reported
Mailing Name: R. C. W. & V. OF TRINITY CHURCH IN NY
Mailing Address: 74 TRINITY PLACE
Mailing Address 2: Not reported
Mailing City,St,Zip: NEW YORK, NY 10006
Mailing Telephone: (212) 602-0854
Owner Mark: First Owner
Facility Status: 1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Certification Flag: False
Certification Date: 10/07/1997
Expiration: 11/16/2002

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

435 HUDSON STREET (Continued)

U003391210

Renew Flag: False
Renew Date: Not reported
Total Capacity: 10000
FAMT: True
Facility Screen: Minor Data Missing
Owner Screen: Minor Data Missing
Tank Screen: Minor Data Missing
Dead Letter: False
CBS Number: Not reported
Town or City: NEW YORK CITY
County Code: 62
Town or City Code: 01
Region: 2

Tank ID: 001
Tank Location: ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Tank Status: In Service
Install Date: Not reported
Capacity (Gal): 10000
Product Stored: NOS 5 OR 6 FUEL OIL
Tank Type: Steel/carbon steel
Tank Internal: Not reported
Tank External: Not reported
Pipe Location: Not reported
Pipe Type: STEEL/IRON
Pipe Internal: Not reported
Pipe External: Not reported
Tank Containment: Diking
Leak Detection: 0
Overfill Protection: 4
Dispenser Method: Suction
Date Tested: Not reported
Next Test Date: Not reported
Missing Data for Tank: Minor Data Missing
Date Closed: Not reported
Test Method: Not reported
Deleted: False
Updated: False
SPDES Number: Not reported
Lat/Long: Not reported

**B14
NE
< 1/8
0.038 mi.
202 ft.**

**R S ROSENBAUM & CO INC
435 HUDSON STREET
NEW YORK, NY 10014
Site 3 of 5 in cluster B**

**RCRA-CESQG 1000889924
NY MANIFEST NY0000195610
US AIRS**

**Relative:
Higher**

RCRA-CESQG:
Date form received by agency: 01/01/2007
Facility name: R S ROSENBAUM & CO INC
Facility address: 435 HUDSON ST
NEW YORK, NY 10014
EPA ID: NY0000195610
Mailing address: HUDSON ST
NEW YORK, NY 10014
Contact: WILLIAM CAGGIANO
Contact address: HUDSON ST
NEW YORK, NY 10014

**Actual:
15 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

R S ROSENBAUM & CO INC (Continued)

1000889924

Contact country: US
Contact telephone: (212) 229-8656
Contact email: Not reported
EPA Region: 02
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: TRINITY CHURCH
Owner/operator address: 74 TRINITY PL
NEW YORK, NY 10006

Owner/operator country: US
Owner/operator telephone: (212) 602-0827
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: TRINITY CHURCH
Owner/operator address: 74 TRINITY PL
NEW YORK, NY 10006

Owner/operator country: US
Owner/operator telephone: (212) 602-0827
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

R S ROSENBAUM & CO INC (Continued)

1000889924

Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006
Facility name: R S ROSENBAUM & CO INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 04/05/1994
Facility name: R S ROSENBAUM & CO INC
Classification: Small Quantity Generator

Violation Status: No violations found

NY MANIFEST:

EPA ID: NY0000195610
Country: USA
Mailing Name: RS ROSENBAUM & CO INC
Mailing Contact: C TRIGO
Mailing Address: 435 HUDSON ST
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10014
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-229-8656

Document ID: SCA0711010
Manifest Status: Not reported
Trans1 State ID: NJD986607380
Trans2 State ID: Not reported
Generator Ship Date: 07/11/2001
Trans1 Recv Date: 07/11/2001
Trans2 Recv Date: Not reported
TSD Site Recv Date: 07/18/2001
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0000195610
Trans1 EPA ID: SCD036275626
Trans2 EPA ID: Not reported
TSDF ID: NYNJ334
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01374
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2001

Document ID: NYB5701104
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: JA125
Trans2 State ID: Not reported
Generator Ship Date: 940518

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

R S ROSENBAUM & CO INC (Continued)

1000889924

Trans1 Recv Date: 940518
Trans2 Recv Date: Not reported
TSD Site Recv Date: 940526
Part A Recv Date: Not reported
Part B Recv Date: 940615
Generator EPA ID: NY0000195610
Trans1 EPA ID: NJD047318043
Trans2 EPA ID: Not reported
TSD ID: OHD066060609
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 94

Document ID: MIA4562763
Manifest Status: Completed after the designated time period for a TSD to get a copy to the DEC
Trans1 State ID: NYJA334
Trans2 State ID: Not reported
Generator Ship Date: 961204
Trans1 Recv Date: 961204
Trans2 Recv Date: 961209
TSD Site Recv Date: 961209
Part A Recv Date: 961224
Part B Recv Date: 970303
Generator EPA ID: NY0000195610
Trans1 EPA ID: NJD986607380
Trans2 EPA ID: MID980684088
TSD ID: MID980615298
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00140
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 96

Document ID: SCA0816020
Manifest Status: Not reported
Trans1 State ID: NJD986607380
Trans2 State ID: Not reported
Generator Ship Date: 08/01/2002
Trans1 Recv Date: 08/01/2002
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/06/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0000195610
Trans1 EPA ID: SCD036275626
Trans2 EPA ID: Not reported
TSD ID: NYJA334

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

R S ROSENBAUM & CO INC (Continued)

1000889924

Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01791
Units: P - Pounds
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2002

Document ID: MIA4562775
Manifest Status: Completed after the designated time period for a TSDf to get a copy to the DEC
Trans1 State ID: NYJA334
Trans2 State ID: Not reported
Generator Ship Date: 970410
Trans1 Recv Date: 970410
Trans2 Recv Date: 970416
TSD Site Recv Date: 970416
Part A Recv Date: Not reported
Part B Recv Date: 970529
Generator EPA ID: NY0000195610
Trans1 EPA ID: NJD986607380
Trans2 EPA ID: MID980684088
TSDf ID: MID980615298
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 97

Document ID: MIA4531142
Manifest Status: Not reported
Trans1 State ID: NJD986607380
Trans2 State ID: MID980684088
Generator Ship Date: 02/26/1998
Trans1 Recv Date: 02/26/1998
Trans2 Recv Date: 03/13/1998
TSD Site Recv Date: 03/13/1998
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0000195610
Trans1 EPA ID: MID980615298
Trans2 EPA ID: Not reported
TSDf ID: Not reported
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00140
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 98

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

R S ROSENBAUM & CO INC (Continued)

1000889924

Document ID: SCA0107000
Manifest Status: Not reported
Trans1 State ID: NJD986607380
Trans2 State ID: Not reported
Generator Ship Date: 01/07/2000
Trans1 Recv Date: 01/07/2000
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/12/2000
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NY0000195610
Trans1 EPA ID: SCD036275626
Trans2 EPA ID: Not reported
TSD ID: NY334
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 01166
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2000

AIRS (AFS):

Compliance and Violation Data Major Sources:

EPA plant ID: 110001607119
Plant name: R S ROSENBAUM & CO INC
Plant address: 435 HUDSON STREET
NEW YORK, NY 10014
County: NEW YORK
Region code: 02
Dunn & Bradst #: Not reported
Air quality cntrl region: 043
Sic code: 2752
Sic code desc: COMMERCIAL PRINTING, LITHOGRAPHIC
North Am. industrial classf: Not reported
NAIC code description: Not reported
Default compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification: POTENTIAL EMISSIONS ARE BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS
IF AND ONLY IF THE SOURCE COMPLIES WITH FEDERALLY ENFORCEABLE
REGULATIONS OR LIMITATIONS.
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR
LOCAL GOVERNMENT
Current HPV: Not reported

Historical Compliance Minor Sources:

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1004
Air prog code hist file: SIP SOURCE
State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE
State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

R S ROSENBAUM & CO INC (Continued)

1000889924

Hist compliance date:	1103
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1104
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1202
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1204
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1301
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1303
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1102
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1201
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1203
Air prog code hist file:	SIP SOURCE
State compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date:	1302
Air prog code hist file:	SIP SOURCE

B15
NE
 < 1/8
 0.039 mi.
 204 ft.

THE RECTOR CHURCH
435 HUDSON ST
MANHATTAN, NY
 Site 4 of 5 in cluster B

NY Spills S102671459
N/A

Relative:
Higher

SPILLS:
 Facility ID: 8908473
 Facility Type: ER
 DER Facility ID: 120124
 Site ID: 140655
 DEC Region: 2
 Spill Date: 11/28/1989
 Spill Number/Closed Date: 8908473 / 11/28/1989
 Spill Cause: Human Error
 Spill Class: Not reported
 SWIS: 3101
 Investigator: WILSON

Actual:
15 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE RECTOR CHURCH (Continued)

S102671459

Referred To: Not reported
Reported to Dept: 11/28/1989
CID: Not reported
Water Affected: Not reported
Spill Source: Institutional, Educational, Gov., Other
Spill Notifier: Other
Cleanup Ceased: 11/28/1989
Cleanup Meets Std: True
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 11/29/1989
Spill Record Last Update: 9/30/2004
Spiller Name: Not reported
Spiller Company: SAME
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller Company: 001
Contact Name: Not reported
Contact Phone: Not reported
DEC Memo: Not reported
Remarks: TANK OVERFILL DRIVER CONTAINED SPILL WITH SPEEDY DRY HESS TO SEND CLEAN UP CREW.

Material:
Site ID: 140655
Operable Unit ID: 935812
Operable Unit: 01
Material ID: 445213
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 10
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

C16
West
< 1/8
0.041 mi.
216 ft.

SPILL NUMBER 0004935
129 LEROY ST
MANHATTAN, NY
Site 1 of 5 in cluster C

NY Spills S104787624
N/A

Relative:
Lower

SPILLS:
Facility ID: 0004935
Facility Type: ER
DER Facility ID: 160723
Site ID: 192756
DEC Region: 2
Spill Date: 7/25/2000
Spill Number/Closed Date: 0004935 / 7/25/2000
Spill Cause: Other

Actual:
12 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPILL NUMBER 0004935 (Continued)

S104787624

Spill Class: Known release with minimal potential for fire or hazard. DEC Response.
Willing Responsible Party. Corrective action taken.

SWIS: 3101
Investigator: SMSANGES
Referred To: Not reported
Reported to Dept: 7/25/2000
CID: 281
Water Affected: Not reported
Spill Source: Commercial/Industrial
Spill Notifier: Affected Persons
Cleanup Ceased: Not reported
Cleanup Meets Std: False
Last Inspection: Not reported
Recommended Penalty: False
UST Trust: False
Remediation Phase: 0
Date Entered In Computer: 7/25/2000
Spill Record Last Update: 7/25/2000
Spiller Name: Not reported
Spiller Company: DJ CARLISE REALITY
Spiller Address: 352 PARK AVE SOUTH
Spiller City,St,Zip: NEW YORK, NY
Spiller Company: 001
Contact Name: KATY BORDONARO
Contact Phone: (212) 675-3004
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was
"SANGESLAND"Burnt rubber smell from a burnt gasket on a drilling rig
digging on the site.

Remarks: CALLER STATES A CONSTRUCTION CREW AT ABOVE LOCATION PERFORMINGTEST
BORING. SITE IS A FORMER GAS STATION AND TESTING CAUSINGAN ODOR IN
AIR OF ABOVE MATERIALS. CALLER IS REQUESTING TO SPEAK TO REP FROM
REGIONAL OFFICE.

Material:
Site ID: 192756
Operable Unit ID: 825984
Operable Unit: 01
Material ID: 549672
Material Code: 0009
Material Name: Gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False
Site ID: 192756
Operable Unit ID: 825984
Operable Unit: 01
Material ID: 549671
Material Code: 0008
Material Name: Diesel
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPILL NUMBER 0004935 (Continued)

S104787624

Resource Affected: Not reported
Oxygenate: False

Tank Test:

**C17
West
< 1/8
0.041 mi.
216 ft.**

**SPILL NUMBER 9810520
130 LEROY STREET
MANHATTAN, NY
Site 2 of 5 in cluster C**

**NY LTANKS S104619823
N/A**

**Relative:
Lower**

LTANKS:

**Actual:
12 ft.**

Site ID: 303800
Spill Number/Closed Date: 9810520 / 12/23/1999
Spill Date: 11/19/1998
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 3101
Investigator: MMMULQUE
Referred To: Not reported
Reported to Dept: 11/19/1998
CID: 281
Water Affected: Not reported
Spill Notifier: Other
Last Inspection: Not reported
Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 11/19/1998
Spill Record Last Update: 12/23/1999
Spiller Name: JORDAN DECANDIA
Spiller Company: LEROY CLARKSON LLC
Spiller Address: 2337 PHILMONT AVE
Spiller City,St,Zip: HUNTINGDON, PA 19006-001
Spiller County: 001
Spiller Contact: JORDAN DECANDIA
Spiller Phone: (215) 938-5000
Spiller Extention: Not reported
DEC Region: 2
DER Facility ID: 245449
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MULQUEEN" cLOSED 12/23/99 BY TOMASELLO. sEE dEC FILE.
Remarks: CALLER RESPONDED TO ABOVE LOCATION FOR TANK REMOVAL ASSESMENT. ASSESMENT REVEALS SOIL CONTAMINATION ON SITE. APPROX. 6-8 YARDS OF SOIL REMOVED AND CONTAINED ON SITE. FURTHER TESTING TO BE DONE. CALLER HAS MET WITH MIKE MULGREEN FROM DEC ON THIS DATE. NO CALL BACK REQUESTED.

Material:

Site ID: 303800
Operable Unit ID: 1067744
Operable Unit: 01

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPILL NUMBER 9810520 (Continued)

S104619823

Material ID: 314392
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

C18
West
< 1/8
0.042 mi.
222 ft.

CON EDISON SERVICE BOX: 36353
GREENWICH ST & LEROY ST N
NEW YORK, NY 10014

RCRA-CESQG 1016149742
NYP004284089

Site 3 of 5 in cluster C

Relative:
Lower

RCRA-CESQG:

Date form received by agency: 01/18/2013

Facility name: CON EDISON SERVICE BOX: 36353

Facility address: GREENWICH ST & LEROY ST N
NEW YORK, NY 10014

EPA ID: NYP004284089

Mailing address: IRVING PL, RM 828
NEW YORK, NY 10003

Contact: RICARDO CARTY

Contact address: Not reported

Contact address: Not reported

Contact country: Not reported

Contact telephone: (646) 772-3407

Contact email: Not reported

EPA Region: 02

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CON EDISON SERVICE BOX: 36353 (Continued)

1016149742

Underground injection activity: No
 On-site burner exemption: No
 Furnace exemption: No
 Used oil fuel burner: No
 Used oil processor: No
 User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No

Violation Status: No violations found

**C19
 WNW
 < 1/8
 0.042 mi.
 222 ft.**

**LOT 85,TAXBLOCK 602
 621 GREENWICH STREET
 MANHATTAN, NY 10014**

**NY E DESIGNATION S109318178
 N/A**

Site 4 of 5 in cluster C

**Relative:
 Lower**

E DESIGNATION:

Tax Lot(s): 85
 E-No: E-211
 Effective Date: 7/23/2008
 Satisfaction Date: Not reported
 Ceqr Number: 07DCP095M
 Ulurp Number: 070575ZMM
 Zoning Map No: 12a
 Description: Air Quality - #2 Fuel Oil or Natural Gas Heat and Hot Water
 Borough Code: MN
 Community District: 102
 Census Tract: 69
 Census Block: 1002
 School District: 02
 City Council District: 03
 Fire Company: E024
 Health Area: 15
 Police Precinct: 006
 Zone District 1: M1-5
 Zone District 2: Not reported
 Commercial Overlay1: Not reported
 Commercial Overlay2: Not reported
 Special Purpose District1: Not reported
 Special Purpose District2: Not reported
 All Components1: M1-5
 All Components2: Not reported
 Split Boundary Indicator: N
 Building Class: G9
 Land Use Category: 07
 Number of Easements: 0
 Owner, Type of Code: Not reported
 Owner Name: KMG GREENWICH LLC
 Lot Area: 000013100
 Total Building Floor Area: 00000007370
 Commercial Floor Area: 00000007370
 Office Floor Area: 00000000000
 Retail Floor Area: 00000000000
 Garage Floor Area: 00000007370
 Storage Floor Area: 00000000000
 Factory Floor Area: 00000000000

**Actual:
 12 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOT 85,TAXBLOCK 602 (Continued)

S109318178

Other Floor Area: 00000000000
Floor Area,Total Bld Source Code7
Number of Buildings: 00001
Number of Floors: 001.00
Residential Units: 00000
Non and Residential Units: 00001
Lot Frontage: 0055.75
Lot Depth: 0134.50
Building Frontage: 0055.00
Building Depth: 0134.00
Proximity Code: 0
Irregular Lot Code: Y
Lot Type: 4
Basement Type Grade: 5
Land Assessed Value: 00000382500
Total Assessed Value: 00000531000
Land Exempt Value: 00000000000
Total Exempt Value: 00000000000
Year Built: 1900
Year Built Code: Not reported
Year Altered1: 0000
Year Altered2: 0000
Historic District Name: Not reported
Landmark Name: Not reported
Built Floor Area Ratio-Far: 0000.56
Maximum Allowable Far: 5.00
Borough Code: 1
Borough Tax Block And Lot: 1006020085
Condominium Number: 00000
Census Tract 2: 0069
X Coordinate: 0982108
Y Coordinate: 0205420
Zoning Map: 12A
Sanborn Map: 103 001
Tax Map: 10208
E Designation No: Not reported
Date of RPAD Data: 11/2005
Date of DCAS Data: 01/2006
Date of Zoning Data: 11/2005
Date of Major Property Data: 11/2005
Date of Landmark Data: 12/2005
Date of Base Map Data: 01/2006
Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

Tax Lot(s): 85
E-No: E-211
Effective Date: 7/23/2008
Satisfaction Date: Not reported
Ceqr Number: 07DCP095M
Ulurp Number: 070575ZMM
Zoning Map No: 12a
Description: Exhaust stack location limitations
Borough Code: MN
Community District: 102
Census Tract: 69

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOT 85,TAXBLOCK 602 (Continued)

S109318178

Census Block: 1002
School District: 02
City Council District: 03
Fire Company: E024
Health Area: 15
Police Precinct: 006
Zone District 1: M1-5
Zone District 2: Not reported
Commercial Overlay1: Not reported
Commercial Overlay2: Not reported
Special Purpose District1: Not reported
Special Purpose District2: Not reported
All Components1: M1-5
All Components2: Not reported
Split Boundary Indicator: N
Building Class: G9
Land Use Category: 07
Number of Easements: 0
Owner, Type of Code: Not reported
Owner Name: KMG GREENWICH LLC
Lot Area: 000013100
Total Building Floor Area: 00000007370
Commercial Floor Area: 00000007370
Office Floor Area: 00000000000
Retail Floor Area: 00000000000
Garage Floor Area: 00000007370
Storage Floor Area: 00000000000
Factory Floor Area: 00000000000
Other Floor Area: 00000000000
Floor Area,Total Bld Source Code7
Number of Buildings: 00001
Number of Floors: 001.00
Residential Units: 00000
Non and Residential Units: 00001
Lot Frontage: 0055.75
Lot Depth: 0134.50
Building Frontage: 0055.00
Building Depth: 0134.00
Proximity Code: 0
Irregular Lot Code: Y
Lot Type: 4
Basement Type Grade: 5
Land Assessed Value: 00000382500
Total Assessed Value: 00000531000
Land Exempt Value: 00000000000
Total Exempt Value: 00000000000
Year Built: 1900
Year Built Code: Not reported
Year Altered1: 0000
Year Altered2: 0000
Historic District Name: Not reported
Landmark Name: Not reported
Built Floor Area Ratio-Far: 0000.56
Maximum Allowable Far: 5.00
Borough Code: 1
Borough Tax Block And Lot: 1006020085
Condominium Number: 00000

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LOT 85,TAXBLOCK 602 (Continued)

S109318178

Census Tract 2: 0069
 X Coordinate: 0982108
 Y Coordinate: 0205420
 Zoning Map: 12A
 Sanborn Map: 103 001
 Tax Map: 10208
 E Designation No: Not reported
 Date of RPAD Data: 11/2005
 Date of DCAS Data: 01/2006
 Date of Zoning Data: 11/2005
 Date of Major Property Data: 11/2005
 Date of Landmark Data: 12/2005
 Date of Base Map Data: 01/2006
 Date of Mass Appraisal Data: 11/2005
 Date of Political and Adm Data: 08/2005
 Pluto-Base Map Indicator: 1

**C20
 NW
 < 1/8
 0.044 mi.
 234 ft.**

**LOT 55,TAXBLOCK 602
 623 GREENWICH STREET
 MANHATTAN, NY 10014**

NY E DESIGNATION

**S109318175
 N/A**

Site 5 of 5 in cluster C

**Relative:
 Lower
 Actual:
 13 ft.**

E DESIGNATION:
 Tax Lot(s): 55
 E-No: E-211
 Effective Date: 7/23/2008
 Satisfaction Date: Not reported
 Ceqr Number: 07DCP095M
 Ulurp Number: 070575ZMM
 Zoning Map No: 12a
 Description: Air Quality - #2 Fuel Oil or Natural Gas Heat and Hot Water
 Borough Code: MN
 Community District: 102
 Census Tract: 69
 Census Block: 1002
 School District: 02
 City Council District: 03
 Fire Company: E024
 Health Area: 15
 Police Precinct: 006
 Zone District 1: M1-5
 Zone District 2: Not reported
 Commercial Overlay1: Not reported
 Commercial Overlay2: Not reported
 Special Purpose District1: Not reported
 Special Purpose District2: Not reported
 All Components1: M1-5
 All Components2: Not reported
 Split Boundary Indicator: N
 Building Class: K9
 Land Use Category: 05
 Number of Easements: 0
 Owner, Type of Code: Not reported
 Owner Name: KREEMY, LLC
 Lot Area: 000000855
 Total Building Floor Area: 0000000825
 Commercial Floor Area: 0000000825

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOT 55,TAXBLOCK 602 (Continued)

S109318175

Office Floor Area: 00000000000
Retail Floor Area: 00000000000
Garage Floor Area: 00000000825
Storage Floor Area: 00000000000
Factory Floor Area: 00000000000
Other Floor Area: 00000000000
Floor Area,Total Bld Source Code7
Number of Buildings: 00001
Number of Floors: 001.00
Residential Units: 00000
Non and Residential Units: 00001
Lot Frontage: 0018.58
Lot Depth: 0043.75
Building Frontage: 0018.58
Building Depth: 0043.75
Proximity Code: 0
Irregular Lot Code: Y
Lot Type: 5
Basement Type Grade: 5
Land Assessed Value: 00000048150
Total Assessed Value: 00000071550
Land Exempt Value: 00000000000
Total Exempt Value: 00000010656
Year Built: 1915
Year Built Code: E
Year Altered1: 0000
Year Altered2: 0000
Historic District Name: Not reported
Landmark Name: Not reported
Built Floor Area Ratio-Far: 0000.96
Maximum Allowable Far: 5.00
Borough Code: 1
Borough Tax Block And Lot: 1006020055
Condominium Number: 00000
Census Tract 2: 0069
X Coordinate: 0982052
Y Coordinate: 0205447
Zoning Map: 12A
Sanborn Map: 103 001
Tax Map: 10208
E Designation No: Not reported
Date of RPAD Data: 11/2005
Date of DCAS Data: 01/2006
Date of Zoning Data: 11/2005
Date of Major Property Data: 11/2005
Date of Landmark Data: 12/2005
Date of Base Map Data: 01/2006
Date of Mass Appraisal Data: 11/2005
Date of Political and Adm Data: 08/2005
Pluto-Base Map Indicator: 1

Tax Lot(s): 55
E-No: E-211
Effective Date: 7/23/2008
Satisfaction Date: Not reported
Ceqr Number: 07DCP095M
Ulurp Number: 070575ZMM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LOT 55,TAXBLOCK 602 (Continued)

S109318175

Zoning Map No: 12a
Description: Exhaust stack location limitations
Borough Code: MN
Community District: 102
Census Tract: 69
Census Block: 1002
School District: 02
City Council District: 03
Fire Company: E024
Health Area: 15
Police Precinct: 006
Zone District 1: M1-5
Zone District 2: Not reported
Commercial Overlay1: Not reported
Commercial Overlay2: Not reported
Special Purpose District1: Not reported
Special Purpose District2: Not reported
All Components1: M1-5
All Components2: Not reported
Split Boundary Indicator: N
Building Class: K9
Land Use Category: 05
Number of Easements: 0
Owner, Type of Code: Not reported
Owner Name: KREEMY, LLC
Lot Area: 000000855
Total Building Floor Area: 0000000825
Commercial Floor Area: 0000000825
Office Floor Area: 0000000000
Retail Floor Area: 0000000000
Garage Floor Area: 0000000825
Storage Floor Area: 0000000000
Factory Floor Area: 0000000000
Other Floor Area: 0000000000
Floor Area,Total Bld Source Code7
Number of Buildings: 00001
Number of Floors: 001.00
Residential Units: 00000
Non and Residential Units: 00001
Lot Frontage: 0018.58
Lot Depth: 0043.75
Building Frontage: 0018.58
Building Depth: 0043.75
Proximity Code: 0
Irregular Lot Code: Y
Lot Type: 5
Basement Type Grade: 5
Land Assessed Value: 00000048150
Total Assessed Value: 00000071550
Land Exempt Value: 00000000000
Total Exempt Value: 00000010656
Year Built: 1915
Year Built Code: E
Year Altered1: 0000
Year Altered2: 0000
Historic District Name: Not reported
Landmark Name: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

LOT 55,TAXBLOCK 602 (Continued)

S109318175

Built Floor Area Ratio-Far: 0000.96
 Maximum Allowable Far: 5.00
 Borough Code: 1
 Borough Tax Block And Lot: 1006020055
 Condominium Number: 00000
 Census Tract 2: 0069
 X Coordinate: 0982052
 Y Coordinate: 0205447
 Zoning Map: 12A
 Sanborn Map: 103 001
 Tax Map: 10208
 E Designation No: Not reported
 Date of RPAD Data: 11/2005
 Date of DCAS Data: 01/2006
 Date of Zoning Data: 11/2005
 Date of Major Property Data: 11/2005
 Date of Landmark Data: 12/2005
 Date of Base Map Data: 01/2006
 Date of Mass Appraisal Data: 11/2005
 Date of Political and Adm Data: 08/2005
 Pluto-Base Map Indicator: 1

**D21
 NNW
 < 1/8
 0.045 mi.
 238 ft.**

**CONSOLIDATED EDISON
 V6360-75 MORTON ST
 NEW YORK, NY
 Site 1 of 17 in cluster D**

**NY MANIFEST 1009237615
 N/A**

**Relative:
 Lower**

NY MANIFEST:
 EPA ID: NYP004029237
 Country: USA
 Mailing Name: CONSOLIDATED EDISON
 Mailing Contact: FRANKLIN MURRAY
 Mailing Address: 4 IRVING PLACE RM 828
 Mailing Address 2: Not reported
 Mailing City: NEW YORK
 Mailing State: NY
 Mailing Zip: 10003
 Mailing Zip4: Not reported
 Mailing Country: USA
 Mailing Phone: 212-460-2808

**Actual:
 13 ft.**

Document ID: NYE0219025
 Manifest Status: Not reported
 Trans1 State ID: NYD006982359
 Trans2 State ID: Not reported
 Generator Ship Date: 12/01/1998
 Trans1 Recv Date: 12/01/1998
 Trans2 Recv Date: Not reported
 TSD Site Recv Date: 12/01/1998
 Part A Recv Date: Not reported
 Part B Recv Date: Not reported
 Generator EPA ID: NYP004029237
 Trans1 EPA ID: NYD980593636
 Trans2 EPA ID: Not reported
 TSD ID: 20855AD
 Waste Code: B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSOLIDATED EDISON (Continued)

1009237615

Quantity: 01119
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: TT - Cargo tank, tank trucks
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 98

D22
NW
< 1/8
0.047 mi.
247 ft.

TANA WEB INC
627 GREENWICH ST - 1ST FL
NEW YORK, NY 10014

RCRA-CESQG 1006810291
FINDS NYR000109652

Site 2 of 17 in cluster D

Relative:
Lower

RCRA-CESQG:

Date form received by agency: 01/01/2007

Facility name: TANA WEB INC

Actual:
13 ft.

Facility address: 627 GREENWICH ST - 1ST FL
NEW YORK, NY 10014

EPA ID: NYR000109652

Mailing address: GREENWICH ST - 1ST FL
NEW YORK, NY 10014

Contact: MARIE MITCHELL

Contact address: GREENWICH ST - 1ST FL
NEW YORK, NY 10014

Contact country: US

Contact telephone: (212) 741-2111

Telephone ext.: 254

Contact email: Not reported

EPA Region: 02

Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: TANA WEB INC
Owner/operator address: GREENWICH ST - 1ST FLOOR
NEW YORK, NY 10014

Owner/operator country: US

Owner/operator telephone: (212) 741-2111

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 10/01/2002

Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TANA WEB INC (Continued)

1006810291

Owner/operator name: TANA WEB INC
Owner/operator address: GREENWICH ST - 1ST FLOOR
NEW YORK, NY 10014
Owner/operator country: US
Owner/operator telephone: (212) 741-2111
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/01/2002
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006
Facility name: TANA WEB INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/06/2004
Facility name: TANA WEB INC
Classification: Small Quantity Generator

Date form received by agency: 10/04/2002
Facility name: TANA WEB INC
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 07/01/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

TANA WEB INC (Continued)

1006810291

Area of violation: Not reported
 Date achieved compliance: Not reported
 Evaluation lead agency: State

FINDS:

Registry ID: 110013300579

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**D23
 NW
 < 1/8
 0.047 mi.
 247 ft.**

**ENTERPRISE EXPRESS
 627 GREENWICH ST
 MANHATTAN, NY**

**NY LTANKS S106534449
 NY AIRS N/A**

Site 3 of 17 in cluster D

**Relative:
 Lower**

LTANKS:

Site ID: 220323
 Spill Number/Closed Date: 0109823 / 9/6/2005
 Spill Date: 1/8/2002
 Spill Cause: Tank Test Failure
 Spill Source: Commercial/Industrial
 Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

**Actual:
 13 ft.**

Cleanup Ceased: Not reported
 Cleanup Meets Standard: False
 SWIS: 3101
 Investigator: JMPELTON
 Referred To: Not reported
 Reported to Dept: 1/10/2002
 CID: 233
 Water Affected: Not reported
 Spill Notifier: Tank Tester
 Last Inspection: Not reported
 Recommended Penalty: False
 UST Involvement: False
 Remediation Phase: 0
 Date Entered In Computer: 1/10/2002
 Spill Record Last Update: 9/6/2005
 Spiller Name: ROY RUCCI
 Spiller Company: Not reported
 Spiller Address: 627 GREENWICH ST
 Spiller City,St,Zip: MANHATTEN, ZZ
 Spiller County: 001
 Spiller Contact: ROY RUCCI
 Spiller Phone: (718) 442-2080
 Spiller Extention: Not reported
 DEC Region: 2
 DER Facility ID: 182232
 DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "DEMEO" August 16, 2005As part of the Spills Backlog Reduction, Jason

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Remarks: Pelton initially called Roy Rucci with Rucci Oil. Rucci Oil delivers #2 fuel oil to 627 Greenwich property and was listed on the Spill Report Form as a contact person. Rucci referred the property owner to Crown Leak Detection to complete the tank testing. Roy Rucci indicated that the tanks were repaired by Petroleum Tank Services. Rucci Oil continues to deliver oil to this property. Roy provided me with contact information for Ed Armstrong (212-741-2111). Ed Armstrong is the 627 Greenwich Street property Superintendent. I followed up with a phone call to Ed Armstrong. Ed Armstrong indicated that a vent line was broken and there was never any petroleum spill. Ed has documentation on the tank tightness testing and the tank repairs and faxed them to me on August 16, 2005. The testing and repair documents were scanned and placed in eDocs on 9/6/05. Based on the fact that no petroleum spill occurred and that repairs were made to the underground storage tank system, the status of the spill was changed to closed by Jason Pelton on September 6, 2005. no pbs number but violation number is d2-5294-12-01 take 2 is in a tomb and tank 1 is underground both failed test property owner is aware tanks will be uncovered and cleaned then retested

Material:

Site ID: 220323
Operable Unit ID: 846974
Operable Unit: 01
Material ID: 563086
Material Code: 0001A
Material Name: #2 Fuel Oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

Site ID: 220323
Spill Tank Test: 1526804
Tank Number: 001
Tank Size: 10000
Test Method: 03
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Horner EZ Check I or II
Site ID: 220323
Spill Tank Test: 1526805
Tank Number: 002
Tank Size: 3500
Test Method: 03
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Horner EZ Check I or II

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

AIRS:

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 206440
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7440417
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 120127
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 108883
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0024
Unit: LB

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7440020
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0022
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 50328
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7439921
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0005
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 7439921
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.01
Unit: LB

Permit Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7440473
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0015
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7439965
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0004
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 205992
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7440439
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0012
Unit: LB

Permit Type: Not reported
Permit Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7439976
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0003
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7782492
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 50000
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.05
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00002
Process Id: P02FP
Contaminant Name/cas: 1330207
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 60
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: P01FP
Contaminant Name/cas: 112345
Epa Control Code: 112
Contol Eff: 90
Emissions: 33
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: PM10-PRI
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.012425
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: PM10-PRI
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.00396499
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 56553
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 206440
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: CO
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.026125
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 7440439
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0001
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: P01FP
Contaminant Name/cas: 1330207
Epa Control Code: 112
Contol Eff: 90
Emissions: 13
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: NH3
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 3.35999989
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 91203
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0004
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 83329
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7440382
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0002
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Emission Unit Id: U00002
Process Id: P02FP
Contaminant Name/cas: 111762
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 205
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00002
Process Id: P02FP
Contaminant Name/cas: 107211
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 207
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 7782492
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0002
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 71432
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0015
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Process Id: 001EI
Contaminant Name/cas: 218019
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 7440020
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0002
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 7439965
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0001
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: NOX
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0525
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Contaminant Name/cas: CO
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.04409999
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 110543
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 1.26999998
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: SO2
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.00031499
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 71432
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.02
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 7440484

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0001
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 207089
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 50000
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.5
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 86737
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 85018
Epa Control Code: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 191242
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 001EI
Contaminant Name/cas: 129000
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: VOC
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.00150999
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: SO2
Epa Control Code: Not reported
Contol Eff: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Emissions: 0.14838999
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: NH3
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 8.35999965
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 7439976
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: NOX
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.1254
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 7440473
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.0053

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE EXPRESS (Continued)

S106534449

Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 7440382
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00002
Process Id: P02FP
Contaminant Name/cas: VOC
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0.1965
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: P01FP
Contaminant Name/cas: VOC
Epa Control Code: 112
Contol Eff: 90
Emissions: 0.1455
Unit: TON

Permit Type: Not reported
Permit Status: Not reported
Issue Date: Not reported
Expiration Date: Not reported
County Fips: 36061
DEC Id: 2620500084
Emission Unit Id: U00001
Process Id: 002EI
Contaminant Name/cas: 7440417
Epa Control Code: Not reported
Contol Eff: Not reported
Emissions: 0
Unit: LB

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

D24
NW
< 1/8
0.047 mi.
247 ft.

627 GREENWICH ST LLC
627 GREENWICH STREET
NEW YORK, NY 10014

NY AST U004107530
N/A

Site 4 of 17 in cluster D

Relative:
Lower

AST:

Region: STATE
DEC Region: 2
Site Status: Active
Facility Id: 2-607348
Program Type: PBS
UTM X: 583754.76526000001
UTM Y: 4509273.34166000004
Expiration Date: 2010/01/20
Site Type: Manufacturing (Other than Chemical)/Processing

Actual:
13 ft.

Affiliation Records:

Site Id: 29201
Affiliation Type: On-Site Operator
Company Name: 627 GREENWICH ST LLC
Contact Type: Not reported
Contact Name: RODNEY NICOLIS
Address1: Not reported
Address2: Not reported
City: Not reported
State: NN
Zip Code: Not reported
Country Code: 001
Phone: (212) 944-4747
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 8/10/2007

Site Id: 29201
Affiliation Type: Mail Contact
Company Name: PETER MOORE ASSOCIATES
Contact Type: Not reported
Contact Name: CHRISTOPHER DIAMOND
Address1: 515 CANAL STREET, 1C
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10013
Country Code: 001
Phone: (212) 925-7760
EMail: CD@PETERMOOREPROJECTS.COM
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 8/10/2007

Site Id: 29201
Affiliation Type: Emergency Contact
Company Name: 627 GREEWICH LLC, C/O PMA
Contact Type: Not reported
Contact Name: ERIC GRANOWSKY
Address1: Not reported
Address2: Not reported
City: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

627 GREENWICH ST LLC (Continued)

U004107530

State: NN
Zip Code: Not reported
Country Code: 999
Phone: (917) 951-0514
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 8/10/2007

Site Id: 29201
Affiliation Type: Facility Owner
Company Name: 627 GREEWICH LLC, C/O PMA
Contact Type: MANAGING AGENT
Contact Name: PETER MOORE
Address1: 515 CANAL STREET 1C
Address2: Not reported
City: NEW YORK
State: NY
Zip Code: 10013
Country Code: 001
Phone: (212) 925-7760
EMail: Not reported
Fax Number: Not reported
Modified By: KXTANG
Date Last Modified: 8/10/2007

Tank Info:

Tank Number: 001
Tank Id: 62799
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

J00 - Dispenser - None
F00 - Pipe External Protection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
I00 - Overfill - None
C02 - Pipe Location - Underground/On-ground
G03 - Tank Secondary Containment - Vault (w/o access)
H00 - Tank Leak Detection - None
B00 - Tank External Protection - None

Tank Location: 6
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 01/01/1995
Capacity Gallons: 10000
Tightness Test Method: 21
Date Test: 02/20/2002
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: KXTANG
Last Modified: 08/10/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

627 GREENWICH ST LLC (Continued)

U004107530

Material Name: #2 Fuel Oil (On-Site Consumption)

Tank Number: 002
Tank Id: 62800
Material Code: 0001
Common Name of Substance: #2 Fuel Oil (On-Site Consumption)

Equipment Records:

C01 - Pipe Location - Aboveground
H00 - Tank Leak Detection - None
A00 - Tank Internal Protection - None
D01 - Pipe Type - Steel/Carbon Steel/Iron
F00 - Pipe External Protection - None
G00 - Tank Secondary Containment - None
J00 - Dispenser - None
I00 - Overfill - None
B00 - Tank External Protection - None

Tank Location: 4
Tank Type: Steel/Carbon Steel/Iron
Tank Status: In Service
Pipe Model: Not reported
Install Date: 01/01/1995
Capacity Gallons: 3500
Tightness Test Method: 21
Date Test: 01/25/2002
Next Test Date: Not reported
Date Tank Closed: Not reported
Register: True
Modified By: KXTANG
Last Modified: 08/10/2007
Material Name: #2 Fuel Oil (On-Site Consumption)

D25
NW
< 1/8
0.047 mi.
247 ft.

**ENTERPRISE PRESS
627 GREENWICH STREET
NEW YORK, NY 10014**

**RCRA-SQG 1004760672
NY MANIFEST NYR000055582**

Site 5 of 17 in cluster D

**Relative:
Lower**

RCRA-SQG:

Date form received by agency: 01/01/2007

**Actual:
13 ft.**

Facility name: ENTERPRISE PRESS
Facility address: 627 GREENWICH STREET
NEW YORK, NY 10014

EPA ID: NYR000055582
Mailing address: GREENWICH STREET
NEW YORK, NY 10014

Contact: MARIE MITCHELL
Contact address: GREENWICH STREET
NEW YORK, NY 10014

Contact country: US
Contact telephone: (212) 741-2111
Contact email: Not reported
EPA Region: 02
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: ENTERPRISE INC
Owner/operator address: 627 GREENWICH ST
NEW YORK, NY 10014

Owner/operator country: US
Owner/operator telephone: (212) 741-2111
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ENTERPRISE INC
Owner/operator address: 627 GREENWICH ST
NEW YORK, NY 10014

Owner/operator country: US
Owner/operator telephone: (212) 741-2111
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 01/01/2006
Facility name: ENTERPRISE PRESS
Classification: Small Quantity Generator

Date form received by agency: 10/02/2002
Facility name: ENTERPRISE PRESS
Classification: Large Quantity Generator

Date form received by agency: 01/01/2001
Facility name: ENTERPRISE PRESS
Site name: ENTERPRISE
Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Date form received by agency: 06/02/1998
Facility name: ENTERPRISE PRESS
Site name: ENTERPRISE INC
Classification: Conditionally Exempt Small Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: SR - 376.1(g)(1)(ii)
Area of violation: Generators - General
Date violation determined: 06/23/2005
Date achieved compliance: 07/28/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(a)(8)(iii)(b)
Area of violation: Generators - General
Date violation determined: 06/23/2005
Date achieved compliance: 07/28/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(b)(2)(i)(ii)
Area of violation: Generators - General
Date violation determined: 06/23/2005
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-3.3(g)(1)
Area of violation: Generators - General
Date violation determined: 06/23/2005
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/15/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(b)(2)(i) & (ii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-3.3(g)(1)(iv)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 372.2(a)(8)(iii)(e)(2)(i)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(a)(8)(iii)(e)(2)(ii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 372.2(c)(3)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 373-3.3(g)(1)(i) & (iii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(a)(8)(iii)(e)(2)(iii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(a)(8)(ii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(a)(8)(iii)(e)(2)(i)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 372.2(a)(8)(iii)(e)(2)(iii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 373-3.3(g)(1)(i) & (iii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 372.2(b)(2)(i) & (ii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Paid penalty amount: 5000

Regulation violated: SR - 372.2(a)(8)(iii)(e)(2)(ii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-3.9(d)(1)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 372.2(a)(8)(i)(a)(2)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 373-3.3(f)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Regulation violated: SR - 373-3.3(g)(1)(iv)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-3.9(c)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 373-3.3(f)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 372.2(a)(8)(i)(a)(2)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: SR - 373-3.9(d)(1)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 372.2(a)(8)(ii)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 01/11/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 5000
Paid penalty amount: 5000

Regulation violated: SR - 373-3.9(c)
Area of violation: Generators - General
Date violation determined: 07/01/2004
Date achieved compliance: 06/23/2005
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/04/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 07/28/2005
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/23/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/23/2005
Evaluation lead agency: State

Evaluation date: 06/23/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Date achieved compliance: 07/28/2005
Evaluation lead agency: State

Evaluation date: 09/23/2004
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/01/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/23/2005
Evaluation lead agency: State

NY MANIFEST:

EPA ID: NYR000055582
Country: USA
Mailing Name: ENTERPRISE
Mailing Contact: KAMESH
Mailing Address: 627 GREENWICH ST
Mailing Address 2: Not reported
Mailing City: NEW YORK
Mailing State: NY
Mailing Zip: 10014
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 212-741-2111

Document ID: NYB8459649
Manifest Status: Not reported
Trans1 State ID: NYD986974376
Trans2 State ID: Not reported
Generator Ship Date: 06/02/1999
Trans1 Recv Date: 06/02/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 06/14/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000055582
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSD ID: PX1132
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 061
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NYB8459838
Manifest Status: Not reported
Trans1 State ID: NYD986974376
Trans2 State ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Generator Ship Date: 01/27/1999
Trans1 Recv Date: 01/27/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 02/08/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000055582
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSD ID: PX1132
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NYB8459865
Manifest Status: Not reported
Trans1 State ID: NYD986974376
Trans2 State ID: Not reported
Generator Ship Date: 03/09/1999
Trans1 Recv Date: 03/09/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/22/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000055582
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSD ID: PX1132
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00165
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 003
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NYB8460045
Manifest Status: Not reported
Trans1 State ID: NYD986974376
Trans2 State ID: Not reported
Generator Ship Date: 08/04/1999
Trans1 Recv Date: 08/04/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/04/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000055582
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

TSDF ID: PX1132
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NYB8460144
Manifest Status: Not reported
Trans1 State ID: NYD986974376
Trans2 State ID: Not reported
Generator Ship Date: 09/22/1999
Trans1 Recv Date: 09/22/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/01/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000055582
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSDF ID: PX1132
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00220
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 004
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 99

Document ID: NYB8460306
Manifest Status: Not reported
Trans1 State ID: NYD986974376
Trans2 State ID: Not reported
Generator Ship Date: 11/03/1999
Trans1 Recv Date: 11/03/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/15/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000055582
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSDF ID: PX1132
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00165
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENTERPRISE PRESS (Continued)

1004760672

Quantity: 00275
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 005
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 99

Document ID: NYB8460432
Manifest Status: Not reported
Trans1 State ID: NYD986974376
Trans2 State ID: Not reported
Generator Ship Date: 12/14/1999
Trans1 Recv Date: 12/14/1999
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/27/1999
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000055582
Trans1 EPA ID: NYD082785429
Trans2 EPA ID: Not reported
TSD ID: PX1132
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00220
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 004
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00110
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Year: 99

Document ID: NYG2978622
Manifest Status: Not reported
Trans1 State ID: NYD986974376
Trans2 State ID: Not reported
Generator Ship Date: 01/10/2006
Trans1 Recv Date: 01/10/2006
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/17/2006
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYR000055582
Trans1 EPA ID: 38333PA
Trans2 EPA ID: Not reported
TSD ID: NYD082785429
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00385
Units: G - Gallons (liquids only)* (8.3 pounds)

APPENDIX E
MUNICIPAL RECORDS

3/13/2014

021414

HPD Building, Registration & Violation Services · [Home](#)

The selected address: 111 LEROY STREET, Manhattan 10014

HPD#	Range	Block	Lot	CD	CensusTract	Stories	A Units	B Units	Ownership	Registration#	Class
23716	Active	111-113	00602	0083	2 6900	2	0	0	PVT	0	N/A

- [Other Units](#)
- [Property Owner Registration Information](#)
- [Charges](#)
- [Map](#)
- [Complaint Status](#)
- [Complaint History](#)
- [Carbon Monoxide Certificate](#)
- [Litigation/Case Status](#)
- [All Open Violations](#)
- [prior year Open Viol.'s](#)
- [Ecertification](#)
- [I-Card Images](#)

One and two family properties are not required to register with HPD unless neither the property owner nor family members of the owner live on the premises. Owners of these properties can register after obtaining a Registration Number. For more information on how to obtain a Registration Number and register, please return to the HPD home page and search for Property Registration.

No violations were retrieved.



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NYC.gov - NEW YORK CITY'S OFFICIAL WEB SITE



Hydro Tech Environmental, Corp.

Main Office:
77 Arkay Drive, Suite G
Hauppauge, New York 11788
Phone (631) 462-5866
Fax (631) 462-5877

NYC Office:
15 Ocean Avenue, 2nd Floor
Brooklyn, New York 11225
Phone (718) 636-0800
Fax (718) 636-0900

www.hydrotechenvironmental.com
Toll Free (866) HYDRO-TK

CHECK REQUEST FORM

Payable to: NYC Fire Department

Address: 9 Metro Tech Center, Brooklyn, NY 11201

Amount requested: \$40.00

Job #: 140059

PO#: _____

Mail this check Will pick up

Requested by: Sasha

Requested on: 3/13/14 Date check needed: _____

Reason for check: Foil

DO NOT WRITE BELOW DOTTED LINE
FOR OFFICE USE ONLY - OFFICE APPROVAL

Check # _____

Check approved by President

Reason for check: Approved Disapproved

Signature of President _____

Date _____



FIRE DEPARTMENT - CITY OF NEW YORK
Public Records Unit / Tanks Section
 9 MetroTech Center
 Brooklyn, New York 11201-3857
 (718) 999-2441 or 2442



**Fuel Tank Special Report
 Request Form**

SECTION A

CUSTOMER INFORMATION

Please print the required information below.

Sasha Rothenberg
 Name
15 Ocean Avenue, 2nd floor
 Address
Brooklyn, NY 11225
 State Zip Code
718-636-0800
 Telephone Number

OFFICE USE ONLY

Cashier / Search No. _____
 PRU Staff
 Accepted By/Initials: _____
 Searched By: _____
 Total Amount: _____

Note: Please make sure you complete this form and attach all required documents. Enclose a check or money order made payable to the **NYC Fire Department** and a stamped self-addressed envelope (with postage). Mail checks or money orders directly to the address and unit listed above. **DO NOT MAIL CASH.**

SECTION B

FUEL TANK REPORT - FEE \$10.00 / PER REPORT

111 Leroy Street Manhattan
 House Number Street Name Borough

- THE TOTAL AMOUNT AND SIZE OF EXISTING FUEL OIL / HEATING TANKS
- THE TOTAL AMOUNT AND SIZE OF REMOVED OR SEALED FUEL OIL / HEATING TANKS
- THE TOTAL AMOUNT AND SIZE OF EXISTING BURIED MOTOR VEHICLE TANKS
- THE TOTAL AMOUNT AND SIZE OF REMOVED OR SEALED BURIED MOTOR VEHICLE TANKS
- MOST RECENT TANK / PIPING TEST RESULTS
- HISTORY OF BURIED TANKS LEAKS

Note: Requests will be responded to within 10 business days.

PR3 (July-08)

Request Confirmation

Request Information

Tracking Number : *EPA-R2-2014-004741*

Requester Name : Ms. Yvonne Martinez

Date Submitted : 03/19/2014

Request Status : Submitted

Description :

Dear Records Officer,
Hydro Tech Environmental, Corp. is conducting a Phase Environmental Site Assessment Research at the following location:

Facility Address: 637 Greenwich Street, New York, NY 10014
Facility Name: Enterprise Press
EPA ID#: NYR000055582

Please consider this a Freedom of Information Act request, for information that you may have pertaining to the release of petroleum products and/or hazardous materials, or any other environmental concerns for this location.

Your assistance is appreciated. Please feel free to contact me at 718-636-0800 with questions.

Thank you,
Yvonne Martinez



[CLICK HERE TO SIGN UP FOR BUILDINGS NEWS](#)

NYC Department of Buildings
Property Profile Overview

111 LEROY STREET
 LEROY STREET

111 - 113

MANHATTAN 10014

Health Area : 6400
 Census Tract : 69
 Community Board : 102
 Buildings on Lot : 1

BIN# 1010403

Tax Block : 602
 Tax Lot : 83
 Condo : NO
 Vacant : NO

[View DCP Addresses...](#) [Browse Block](#)

[View Zoning Documents](#) [View Challenge Results](#) [Pre - BIS PA](#) [View Certificates of Occupancy](#)

Cross Street(s): HUDSON STREET, GREENWICH STREET

DOB Special Place Name:

DOB Building Remarks:

Landmark Status:		Special Status:	N/A
Local Law:	NO	Loft Law:	NO
SRO Restricted:	NO	TA Restricted:	NO
UB Restricted:	NO		
Little 'E' Restricted:	AIR	Grandfathered Sign:	NO
Legal Adult Use:	NO	City Owned:	NO
Additional BINs for Building:	NONE		

Special District: MX-6 - MIXED USE-6 (HUDSON SQUARE, MN)

This property is not located in an area that may be affected by Tidal Wetlands, Freshwater Wetlands, or Coastal Erosion Hazard Area. [Click here for more information](#)

Department of Finance Building Classification: K9-STORE BUILDING

Please Note: The Department of Finance's building classification information shows a building's tax status, which may not be the same as the legal use of the structure. To determine the legal use of a structure, research the records of the Department of Buildings.

	Total	Open	
Complaints	4	0	Elevator Records
Violations-DOB	8	5	Electrical Applications
Violations-ECB (DOB)	0	0	Permits In-Process / Issued
Jobs/Filings	10		Illuminated Signs Annual Permits
ARA / LAA Jobs	0		Plumbing Inspections
Total Jobs	10		Open Plumbing Jobs / Work Types
Actions	37		Facades
			Marquee Annual Permits
			Boiler Records
			DEP Boiler Information
			Crane Information
			After Hours Variance Permits

OR Enter Action Type:

OR Select from List:

Select...

AND

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



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NYC Department of Buildings

Address Information From Department of City Planning

Page: 1 of 1

Premises: 111 LEROY STREET MANHATTAN

BIN: [1010403](#) Block: 602 Lot: 83

LOW NUMBER

HIGH NUMBER

STREET NAME

STCDE

BIN

111

113

LEROY STREET

24790

[1010403](#)

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



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NYC Department of Buildings
Property Browse by Boro/Block/Lot

Page: 1

Browsing MANHATTAN Block 602

TAX LOT	ADDRESS	HOUSE NUM RANGE	LANDMARK	OBSOLETE	BIN
10	100 MORTON STREET	100 - 100			1086102
10	600 WASHINGTON STREET	600 - 614			1086101
28	127 LEROY STREET	127 - 139			1010397
30	622 GREENWICH STREET	622 - 626			1078096
30	603 WASHINGTON STREET	603 - 607			1078097
30	609 WASHINGTON STREET	609 - 609			1078098
36	92 MORTON STREET	92 - 98			1010398
54	619 GREENWICH STREET	619 - 621			1803930
55	623 GREENWICH STREET	623 - 623			1010399
56	625 GREENWICH STREET	625 - 625			1010400
58	627 GREENWICH STREET	627 - 631			1080188
58	82 MORTON STREET	82 - 82			1080189
64	78 MORTON STREET	78 - 78			1010401
68	423 HUDSON STREET	423 - 443			1010402
83	111 LEROY STREET	111 - 113			1010403
85	617 GREENWICH STREET	617 - 617			1813097
7501	362 WEST STREET	362 - 370			1086104

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.

DEPARTMENT OF HOUSING AND BUILDINGS

JZ/ 1c BOROUGH OF MANHATTAN, CITY OF NEW YORK

No. 22427

Date December 1, 1947

CERTIFICATE OF OCCUPANCY

(Standard form adopted by the Board of Standards and Appeals and issued pursuant to Section 646 of the New York Charter, and Sections C.26-181.0 to C.26-187.0 inclusive Administrative Code 2.1.3.1. to 2.1.3.7. Building Code.)

This certificate supersedes C. O. No.

To the owner or owners of the building or premises:

THIS CERTIFIES that the new—altered—existing—building—premises located at
111-113 Leroy Street

Block 602 Lot 83 & 84

conforms substantially to the approved plans and specifications, and to the requirements of the building code and all other laws and ordinances, and of the rules and regulations of the Board of Standards and Appeals, applicable to a building of its class and kind at the time the permit was issued; and

CERTIFIES FURTHER that, any provisions of Section 646 of the New York Charter have been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent.

N.B. ~~Exam~~ No.— 215-1946

Construction classification— Fireproof Class 1

Occupancy classification— Commercial

Height Base. & 2 stories, 28 feet.

Date of completion— October 17, 1947

Located in Unrestricted Use District.

B Area 1

Height Zone at time of issuance of permit 2921-1946

This certificate is issued subject to the limitations hereinafter specified and to the following resolutions of the Board of Standards and Appeals:

(Calendar numbers to be inserted here)

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOADS Lbs. per Sq. Ft.	PERSONS ACCOMMODATED			USE
		MALE	FEMALE	TOTAL	
Basement on ground					Boiler room
1st story on ground & 300		10	--	10	Repair service for Lift machines.
2d story	120	5	5	10	Office and light storage.

Note: Fuel Oil approved by Fire Department July 19, 1947

CR

NO CHANGES OF USE OR OCCUPANCY NOT CONSISTENT WITH THIS CERTIFICATE SHALL BE MADE UNLESS FIRST APPROVED BY THE BOROUGH SUPERINTENDENT

Unless an approval for the same has been obtained from the Borough Superintendent, no change or rearrangement in the structural parts of the building, or affecting the light and ventilation of any part thereof, or in the exit facilities, shall be made; no enlargement, whether by extending on any side or by increasing in height shall be made; nor shall the building be moved from one location or position to another; nor shall there be any reduction or diminution of the area of the lot or plot on which the building is located.

The building or any part thereof shall not be used for any purpose other than that for which it is certified.

The superimposed, uniformly distributed loads, or concentrated loads producing the same stresses in the construction in any story shall not exceed the live loads specified on reverse side; the number of persons of either sex in any story shall not exceed that specified when sex is indicated, nor shall the aggregate number of persons in any story exceed the specified total; and the use to which any story may be put shall be restricted to that fixed by this certificate except as specifically stated.

This certificate does not in any way relieve the owner or owners or any other person or persons in possession or control of the building, or any part thereof from obtaining such other permits, licenses or approvals as may be prescribed by law for the uses or purposes for which the building is designed or intended; nor from obtaining the special certificates required for the use and operation of elevators; nor from the installation of fire alarm systems where required by law; nor from complying with any lawful order for additional fire extinguishing appliances under the discretionary powers of the fire commissioner; nor from complying with any lawful order issued with the object of maintaining the building in a safe or lawful condition; nor from complying with any authorized direction to remove encroachments into a public highway or other public place, whether attached to or part of the building or not.

If this certificate is marked "Temporary", it is applicable only to those parts of the building indicated on its face, and certifies to the legal use and occupancy of only such parts of the building; it is subject to all the provisions and conditions applying to a final or permanent certificate; it is not applicable to any building under the jurisdiction of the Housing Division unless it is also approved and endorsed by them, and it must be replaced by a full certificate at the date of expiration.

If this certificate is for an existing building, erected prior to March 14, 1916, it has been duly inspected and it has been found to have been occupied or arranged to be occupied prior to March 14, 1916, as noted on the reverse side, and that on information and belief, since that date there has been no alteration or conversion to a use that changed its classification as defined in the Building Code, or that would necessitate compliance with some special requirement or with the State Labor Law or any other law or ordinance; that there are no notices of violations or orders pending in the Department of Housing and Buildings at this time; that Section 646F of the New York City Charter has been complied with as certified by a report of the Fire Commissioner to the Borough Superintendent, and that, so long as the building is not altered, except by permission of the Borough Superintendent, the existing use and occupancy may be continued.

"§ 646 F. No certificate of occupancy shall be issued for any building, structure, enclosure, place or premises wherein containers for combustibles, chemicals, explosives, inflammables and other dangerous substances, articles, compounds or mixtures are stored, or wherein automatic or other fire alarm systems or fire extinguishing equipment are required by law to be or are installed, until the fire commissioner has tested and inspected and has certified his approval in writing of the installation of such containers, systems or equipment to the Borough Superintendent of the borough in which the installation has been made. Such approval shall be recorded on the certificate of occupancy."

Additional copies of this certificate will be furnished to persons having an interest in the building or premises, upon payment of a fee of fifty cents per copy.

THE CITY OF NEW YORK



DEPARTMENT OF BUILDINGS CERTIFICATE OF OCCUPANCY

BOROUGH *MANHATTAN*

DATE: **OCT 30 1985**

NO. **87802**

This certificate supersedes C.O. No. **33437**

ZONING DISTRICT **A 1-5**

THIS CERTIFIES that the ~~NEW~~-altered-~~EXISTING~~-building-premises located at
111-113 Grey Street

Block **C2** Lot **83 & 84**

CONFORMS SUBSTANTIALLY TO THE APPROVED PLANS AND SPECIFICATIONS AND TO THE REQUIREMENTS OF ALL APPLICABLE LAWS, RULES, AND REGULATIONS FOR THE USES AND OCCUPANCIES SPECIFIED HEREIN.

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOAD LBS PER SQ FT	MAXIMUM NO. OF PERSONS PERMITTED	ZONING DWELLING OR ROOMING UNITS	BUILDING CODE HABITABLE ROOMS	ZONING USE GROUP	BUILDING CODE OCCUPANCY GROUP	DESCRIPTION OF USE
Basement	100				10	E-2	Boiler room
First	100 300	40			10	E	Sound studio
Second	120	40			10	E	Sound studio
			Commercial	Old Code			

OPEN SPACE USES _____

(SPECIFY - PARKING SPACES, LOADING BERTHS, OTHER USES, NONE)

NO CHANGES OF USE OR OCCUPANCY SHALL BE MADE UNLESS
A NEW AMENDED CERTIFICATE OF OCCUPANCY IS OBTAINED

THIS CERTIFICATE OF OCCUPANCY IS ISSUED SUBJECT TO FURTHER LIMITATIONS, CONDITIONS AND
SPECIFICATIONS NOTED ON THE REVERSE SIDE.

George C. ...

BOROUGH SUPERINTENDENT

[Signature]

COMMISSIONER

ORIGINAL OFFICE COPY - DEPARTMENT OF BUILDINGS COPY

THAT THE ZONING LOT ON WHICH THE PREMISES IS LOCATED IS BOUNDED AS FOLLOWS:

BEGINNING at a point on the distant 120' North side of Leroy Street
120' East from the corner formed by the intersection of
Wilson Street and Leroy Street
 running thence West 40' feet; thence North 120' feet;
 thence East 40' feet; thence South 120' feet;
 thence _____ feet; thence _____ feet;
 thence _____ feet; thence _____ feet;
 to the point or place of beginning.

ALT. No. 73/65 DATE OF COMPLETION 10-1-65 CONSTRUCTION CLASSIFICATION 1st 1-1/2 stories
 BUILDING OCCUPANCY GROUP CLASSIFICATION Commercial HEIGHT 2 STORIES 35' FEET

THE FOLLOWING FIRE DETECTION AND EXTINGUISHING SYSTEMS ARE REQUIRED AND WERE INSTALLED IN COMPLIANCE WITH APPLICABLE LAWS.

	YES	NO		YES	NO
STANDPIPE SYSTEM			AUTOMATIC SPRINKLER SYSTEM		
YARD HYDRANT SYSTEM					
STANDPIPE FIRE TELEPHONE AND SIGNALLING SYSTEM					
SMOKE DETECTOR					
FIRE ALARM AND SIGNAL SYSTEM					

- STORM DRAINAGE DISCHARGES INTO:
- A) STORM SEWER B) COMBINED SEWER C) PRIVATE SEWAGE DISPOSAL SYSTEM
- SANITARY DRAINAGE DISCHARGES INTO:
- A) SANITARY SEWER B) COMBINED SEWER C) PRIVATE SEWAGE DISPOSAL SYSTEM

LIMITATIONS OR RESTRICTIONS:
 BOARD OF STANDARDS AND APPEALS CAL. NO. _____
 CITY PLANNING COMMISSION CAL. NO. _____
 OTHERS: _____



DEPARTMENT OF BUILDINGS
CERTIFICATE OF OCCUPANCY

BOROUGH MANHATTAN **DATE** MAY 17 1996^{o.} **ZONING DISTRICT** M1-5
 This certificate supersedes C.O. NO. **109386**
 THIS CERTIFIES that the ~~NEW~~ altered ~~EXISTING~~ building premises located at
 111-113 LEROY STREET Block 602 Lot 83

CONFORMS SUBSTANTIALLY TO THE APPROVED PLANS AND SPECIFICATIONS AND TO THE REQUIREMENTS OF ALL APPLICABLE LAWS, RULES, AND REGULATIONS FOR THE USES AND OCCUPANCIES SPECIFIED HEREIN.

PERMISSIBLE USE AND OCCUPANCY

STORY	LIVE LOAD LBS PER SQ FT.	MAXIMUM NO OF PERSONS PERMITTED	ZONING DWELLING OR ROOMING UNITS	BUILDING CODE HABITABLE ROOMS	ZONING USE GROUP	BUILDING CODE OCCUPANCY GROUP	DESCRIPTION OF USE
CELLAR	O.G.				10	D-2	BOILER ROOM
1ST FLOOR	O.G.	10			16	D-1	AUTO REPAIR SHOP
2ND FLOOR	120	40			10	E	SOUND STUDIO

THIS CERTIFICATE OF OCCUPANCY MUST BE POSTED
 WITHIN THE BUILDING IN CONFORMANCE WITH THE RULES
 OF THE DEPARTMENT OF BUILDINGS EFFECTIVE MARCH 31ST, 1967.

OPEN SPACE USES _____
 (SPECIFY—PARKING SPACES, LOADING BERTHS, OTHER USES, NONE)

M.G.C. **NO CHANGES OF USE OR OCCUPANCY SHALL BE MADE UNLESS
 A NEW AMENDED CERTIFICATE OF OCCUPANCY IS OBTAINED**
 THIS CERTIFICATE OF OCCUPANCY IS ISSUED SUBJECT TO FURTHER LIMITATIONS, CONDITIONS AND
 SPECIFICATIONS NOTED ON THE REVERSE SIDE.

Romy A. Givoni, P.E. **BOROUGH SUPERINTENDENT** *Richard M. ...* **COMMISSIONER**

ORIGINAL OFFICE COPY - DEPARTMENT OF BUILDINGS COPY

THAT THE ZONING LOT ON WHICH THE PREMISES IS LOCATED IS BOUNDED AS FOLLOWS:

BEGINNING at a point on the NORTH side of LEROY STREET
 distant 120 feet from the corner formed by the intersection of
 HUDSON STREET and LEROY STREET
 running thence WEST 40'
 NORTH 100'
 EAST 40'
 SOUTH 100'
 thence thence thence thence
 to the point or place of beginning.

100967740

XXX

NO. OF ALT. No. DATE OF COMPLETION 5/7/96 CONSTRUCTION CLASSIFICATION 1-A
 BUILDING OCCUPANCY GROUP CLASSIFICATION D-1 HEIGHT 28' FEET
 STORIES.

THE FOLLOWING FIRE DETECTION AND EXTINGUISHING SYSTEMS ARE REQUIRED AND WERE INSTALLED IN COMPLIANCE WITH APPLICABLE LAWS.

STANDPIPE SYSTEM	YES	NO
AUTOMATIC SPRINKLER SYSTEM	YES	NO
STANDPIPE FIRE TELEPHONE AND SIGNALING SYSTEM		
SMOKE DETECTOR		
FIRE ALARM AND SIGNAL SYSTEM		

STORM DRAINAGE DISCHARGES INTO:

- A) STORM SEWER
- B) COMBINED SEWER
- C) PRIVATE SEWAGE DISPOSAL SYSTEM

SANITARY DRAINAGE DISCHARGES INTO:

- A) SANITARY SEWER
- B) COMBINED SEWER
- C) PRIVATE SEWAGE DISPOSAL SYSTEM

LIMITATIONS OR RESTRICTIONS:

BOARD OF STANDARDS AND APPEALS CAL. NO. _____

CITY PLANNING COMMISSION CAL. NO. _____

OTHERS:



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NYC Department of Buildings
Complaints By Address

Click [here](#) for information on how to remove a Stop Work Order from your property

Page: 1 of 1

4 Total Complaints

[View SWO Complaints](#) BIN: **1010403**

Looking for a list of complaint [category codes](#) or [disposition codes](#)?
 (Adobe Acrobat Reader required)

Complaint Number	Address	Date Entered	Category	Inspection Date	Disposition	Status
1275857	111 LEROY STREET	02/16/2010	04	02/26/2010	I2	RES
1200112	111 LEROY STREET	07/30/2007	04	08/02/2007	I2	RES
1044131	111 LEROY STREET	09/16/1996	05	01/06/1997	C2	CLS
1037518	111 LEROY STREET	10/23/1995	05	10/04/1996	I2	RES

If you have any questions please review these [Frequently Asked Questions](#), the [Glossary](#), or call the 311 Citizen Service Center by dialing 311 or (212) NEW YORK outside of New York City.



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NYC Department of Buildings
DOB Violations

Page: 1

Premises: 111 LEROY STREET MANHATTAN

BIN: [1010403](#) Block: 602 Lot: 83

NUMBER

TYPE

FILE DATE

V* 6196-47

DOB VIOLATION - DISMISSED

00/00/0000

V* 081285CA2D

DOB VIOLATION - DISMISSED

08/12/1985

DISMISSAL DATE: 10/30/1985

[V* 090194LL629104440](#)

DOB VIOLATION - DISMISSED

09/01/1994

[V 010308LL629103338](#)

DOB VIOLATION - ACTIVE

01/03/2008

[V 010109LL629103433](#)

DOB VIOLATION - ACTIVE

01/01/2009

[V 123109LBLVIO01099](#)

DOB VIOLATION - ACTIVE

12/31/2009

[V 121311LBLVIO00903](#)

DOB VIOLATION - ACTIVE

12/13/2011

[V 030113LBLVIO00697](#)

DOB VIOLATION - ACTIVE

03/01/2013

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NYC Department of Buildings
Job Overview

Page: 1 of 1

Premises: 111 LEROY STREET MANHATTAN

BIN: [1010403](#) Block: 602 Lot: 83To start overview at new date, select Month: - Day: Year: Show All BIS Job Types Show All Filings

FILE DATE	JOB #	DOC #	JOB TYPE	JOB STATUS	STATUS DATE	LIC #	APPLICANT	IN AUDIT	ZONING APPROVAL
02/21/1992	100377520	01	A2	X SIGNED OFF	02/01/1996	RA15571	RA WINKELMA		NOT APPLICABLE
1FL.REMOVAL OF WALLS,DOORS . INST AL.OF WALLS,DOORS, Work on Floor(s): 1 thru 2									
02/21/1992	100377520	02	A2	X SIGNED OFF	02/01/1996	0048399	PE BEITIN		NOT APPLICABLE
2ND FLOOR: REMOVAL OF EXISTING DUCTS AND INSTALLATION OF NEW DUCTWORK Work on Floor(s): 2, ROF									
02/21/1992	100377520	03	A2	X SIGNED OFF	02/01/1996	0053211	PE GALDI		NOT APPLICABLE
REMOVAL OF SMALL PORTION OF ROOF SLAB SUPPORT BOTH OPENINGS WITH NEW Work on Floor(s): 1 thru 2									
11/16/1992	100511518	01	A2	R PERMIT-ENTIRE	11/19/1992	0047135	PE GERMAIN		NOT APPLICABLE
REPLACE (1) NEW BOILER AND (1) NEW BURNER. NO CHANGE IN MEANS OF Work on Floor(s): CEL									
01/06/1995	100967740	01	A1	X SIGNED OFF	05/17/1996	0071513	PE GAMILL		NOT APPLICABLE
CHANGE THE USE OF FIRST FLOOR FROM SOUND STUDIO USE GROUP 10, TO Work on Floor(s): 1FL									
06/06/1995	101063769	01	A2	R PERMIT-ENTIRE	06/19/1995	0050579	PE RUDIHOFF		NOT APPLICABLE
REPLACE BOILER AND OIL BURNER. NO CHANGE IN EGRESS, OCCUPANCY OR USE Work on Floor(s): BAS									
10/12/1995	101130269	01	A2	X SIGNED OFF	11/09/1995	0050579	PE RUDIHOFF		NOT APPLICABLE
INSTALL PACKAGE ROOFTOP A/C UNIT, NEW EQUIPMENT SUPPORTS AND DUCTWORK Work on Floor(s): ROF,2									
01/10/1996	100377520	04	A2	P APPROVED	01/24/1996	0048399	PE BEITIN		NOT APPLICABLE
POST APPROVAL AMENDMENT FOR 02 Work on Floor(s): 1 thru 2									
01/23/1996	100377520	05	A2	P APPROVED	01/24/1996	0048399	PE BEITIN		NOT

APPLICABLE

POST APPROVAL AMENDMENT FOR 02 2ND FLOOR: REMOVAL OF EXISTING DUCTS AND IN
Work on Floor(s): 2, ROF

10/07/1996 [101409236](#) 01 A2 R PERMIT-ENTIRE 10/23/1996 0050579 PE RUDIHOFF

NOT
APPLICABLE

REPLACE OIL BURNER. LOCAL LAW 17/95 DOES NOT APPLY TO THIS APPLICATI
Work on Floor(s): CEL

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NYC Department of Buildings
Actions

Page: 1

Premises: 111 LEROY STREET MANHATTAN

BIN: [1010403](#) Block: 602 Lot: 83

NUMBER		TYPE	FILE DATE
ALT 3059-34		ALTERATION	00/00/1934
ALT 863-80*		ALTERATION	00/00/1980
ALT 73-85		ALTERATION	01/16/1985
ALT 1535-86		ALTERATION	11/19/1986
BN 1303-47DC		BUILDING NOTICE	00/00/1947
BN 1419-47E		BUILDING NOTICE	00/00/1947
BN 1303-47		BUILDING NOTICE	00/00/1947
BN 1419-47E		BUILDING NOTICE	00/00/1947
BN 2401-70		BUILDING NOTICE	00/00/1970
BN 690-70		BUILDING NOTICE	00/00/1970
BN 690-70		BUILDING NOTICE	00/00/1970
BN 4347-84		BUILDING NOTICE	06/25/1984
C)20189		CONSTRUCTION	00/00/0000
CO 33437	(PDF)	CERTIFICATE OF OCCUPANCY	00/00/0000
CO 33437	(PDF)	CERTIFICATE OF OCCUPANCY	00/00/0000
CO 87802	(PDF)	CERTIFICATE OF OCCUPANCY	10/30/1985
CO 109386	(PDF)	CERTIFICATE OF OCCUPANCY	05/17/1996
CO 109386	(PDF)	CERTIFICATE OF OCCUPANCY	05/17/1996
CO 109386	(PDF)	CERTIFICATE OF OCCUPANCY	05/17/1996
DP 49-36		DEMOLITION PERMIT	00/00/1936
DP 365-36G		DEMOLITION PERMIT	00/00/1936
FE 594-00*		FIRE ESCAPE	00/00/1900
FE 94-00*		FIRE ESCAPE	00/00/1900
FE 595-00*		FIRE ESCAPE	00/00/1900
FO 578-47		OIL BURNER APPLICATION	00/00/1947

Next

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NYC Department of Buildings
Actions

Page: 2

BIN: [1010403](#) Block: 602 Lot: 83

Premises: 111 LEROY STREET MANHATTAN

NUMBER	TYPE	FILE DATE
FO 578-47	OIL BURNER APPLICATION	00/00/1947
NB 197-36	NEW BUILDING	00/00/1936
NB 215-46ENT	NEW BUILDING	00/00/1946
P 3552-46	PLUMBING	00/00/1946
P 3552-46	PLUMBING	00/00/1946
PER 411-35G	PERMIT	00/00/1935
PER 2921-46ENT	PERMIT	00/00/1946
PER 2921-46	PERMIT	00/00/1946
PRS 1761-47	PLUMBING REPAIR SLIP	00/00/1947
SR 1558-54	SPECIAL REPORT	00/00/1954
SR 1558-54	SPECIAL REPORT	00/00/1954
UB 197-36	UNSAFE BUILDING	00/00/1936
V* 6196-47	DOB VIOLATION - DISMISSED	00/00/0000
V* 081285CA2D	DOB VIOLATION - DISMISSED	08/12/1985
DISMISSAL DATE: 10/30/1985		
V* 090194LL629104440	DOB VIOLATION - DISMISSED	09/01/1994
V 010308LL629103338	DOB VIOLATION - ACTIVE	01/03/2008
V 010109LL629103433	DOB VIOLATION - ACTIVE	01/01/2009
V 123109LBLVIO01099	DOB VIOLATION - ACTIVE	12/31/2009
V 121311LBLVIO00903	DOB VIOLATION - ACTIVE	12/13/2011
V 030113LBLVIO00697	DOB VIOLATION - ACTIVE	03/01/2013

[Previous](#)

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NEW YORK CITY ENVIRONMENTAL PROTECTION

Application for Records, Article 6 – New York State Public Officers Law, Freedom of Information Law (FOIL)

Complete Part I of this form. Please refer to instruction sheet when completing this form. If responsive records are located, you will be notified and informed of the required payment. Advance payment is required in check or money order payable to the City of New York before documents will be released. **Mail the completed application to:** Records Access Officer at NYC DEP, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373, or fax to: (718) 595-6543. **DO NOT FAX AND MAIL.**

PART I. APPLICATION – Check type of record(s) requested:

- ACCO (Bid/Procurement)
- BCS (Water Bill Accounts/Metering)
- BEC (Asbestos)
- BEC (Air Permits/Complaints)
- BEC (Noise Complaints/Inspections)
- BEDC (Engineering & Construction)

- BEPA (Environmental Review/SEQRA)
- BPS (Hazardous Materials/Right to Know/Watershed Incident Reports)
- BWS (Watershed/Reservoir/Operations/Water Quality)
- BWSO (Water Main/Line Repair/Construction)

- BWSO (Sewer Main/Line Repair/Construction)
- BWT (Pretreatment/Sewer Discharge Violations)
- BWT (Wastewater Treatment Plant Operations)
- HRM (Personnel Records)
- Hazardous materials emergency response (BEC), Notices of violation and decisions (ECB)

PLEASE PRINT CLEARLY

I hereby apply to inspect or receive copies of the following records (attach additional sheets as needed):

All environmental records.

Location: 111 Leroy Street, New York, NY

Time frame/date of records: _____

Name: Sasha Rothenberg

Phone: 718-636-0800

Email: ymartinez@htecorp.info

Firm: Hydro Tech Environmental, Corp.

Address: 15 Ocean Avenue, 2nd fl. City: Brooklyn State: NY Zip Code: 11225

Signature: Sasha Rothenberg Date: 3/13/14

A denial, in whole or in part, may be appealed within 30 days by writing to the NYCDEP FOIL Appeals Officer, 59-17 Junction Blvd., 19th Fl., Flushing, NY 11373

Print Form

Region: [New York City](#)

(718) 715-1758

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Deep Owner Search

Address

111-113 Leroy St

City, State -or- Zip

New York City, NY

Search

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Relations

- Agent/Attorney in fact
- Buyer
- Contractor who did work on property
- Holder of mortgage on property
- Managing agent
- Owner of the property
- Representative of the owner
- Seller
- Tenant of the property
- Voter

Recorded Deeds

12/28/2007

Buyer: Kmg Pma Leroy LLC

Seller: Morse Jonathan

Price: n/a

12/28/2007

Buyer: Morse Jonathan

Seller: Kmg Pma Leroy LLC

Price: n/a

6/15/2006

Who owns 111-113 Leroy St New York, NY ?

Who uses 111-113 Leroy St New York, NY as the

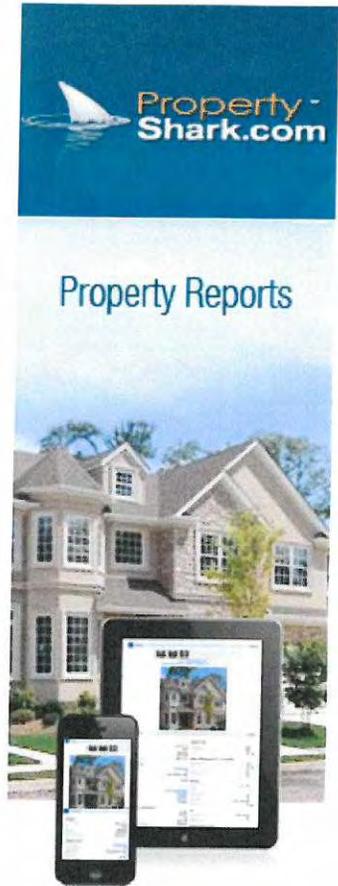
Building class	Miscellaneous Store Building (K9)
Building size	8,025 SF
Lot size	4,000 SF
No. of units	1
Last sale price	\$0
Last sale date	12/28/2007

No notes for

Entity	Source & Date	Role	Action
Kmg Pma Leroy LLC 111 Leroy St New York, New York, NY 3 similar records found	Assessment Roll 1/15/2014		Find c Find a Resea
Kmg Pma Leroy LLC 111 Leroy St New York, New York, NY	Notice Address 11/30/2013		
Kmg Pma Leroy LLC 515 Canal St New York, New York, NY	Mortgage 12/31/2007	<i>Borrower</i>	
Kmg Greenwich LLC 515 Canal St New York, New York, NY	Mortgage 12/31/2007	<i>Borrower</i>	
Morse Jonathan C/O Peter Moore Associates New York, New York, NY 4 similar records found	Deed 12/28/2007	<i>Seller</i>	Find c Find a Resea
Kmg Pma Leroy LLC C/O Peter Moore Associates New York, New York, NY	Deed 12/28/2007	<i>Seller</i>	
Kmg Pma Leroy LLC C/O Peter Moore Associates New York, New York, NY	Deed 12/28/2007	<i>Buyer</i>	

Morse Jonathan C/O Peter Moore Associates New York, New York, NY	Deed 12/28/2007	<i>Buyer</i>	
Kmg Pma Leroy LLC C/O Peter Moore Associates New York, New York, NY	Mortgage 6/15/2006	<i>Borrower</i>	
Irma Associates LLC C/O Rita Fieber Hewlett, Nassau, NY	Deed 6/15/2006	<i>Seller</i>	Find c Find a Resea
Irma Associates (no address) 1 similar record found	Deed 6/21/1995	<i>Seller</i>	Find c Find a Resea
Irma Associates (no address)	Deed 3/18/1991	<i>Buyer</i>	
Fieber Rita (no address) 1 similar record found	Deed 3/18/1991	<i>Seller</i>	Find c Find a Resea
Fieber Rita (no address)	Deed 5/29/1968	<i>Buyer</i>	
Rima Equities Inc (no address) 2 similar records found	Deed 5/29/1968	<i>Seller</i>	Find c Find a Resea
Rima Equities Inc (no address)	Deed 5/29/1968	<i>Buyer</i>	
Rima Equities Inc (no address)	Mortgage 5/29/1968	<i>Borrower</i>	
Rector Churchwardens Millbrook, Dutchess, NY 1 similar record found	Deed 5/29/1968	<i>Seller</i>	Find c Find a Resea
Rector Churchwardens Millbrook, Dutchess, NY	Mortgage 5/29/1968	<i>Lender</i>	

Kmg Pma Leroy LLC C/O Peter Moore New York, New York, NY	Deed 6/15/2006	<i>Buyer</i>	Find c Find a Resea
Irma Associates LLC (no address)	Deed 6/21/1995	<i>Buyer</i>	Find c Find a Resea
Mutual Bank 16540 S Halsted St Harvey, Cook, IL	Mortgage 12/31/2007	<i>Lender</i>	Find c Find a Resea
Cse Mortgage LLC 4445 Willard Ave Chevy Chase, Montgomery, Md	Mortgage 6/15/2006	<i>Lender</i>	Find c Find a Resea



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Location Report

Property Information (1)

111 LEROY STREET, MANHATTAN 10014

*Commercial / Office Building***Owner:** KMG PMA LEROY, LLC**Block:** 602 **Lot:** 83**Property Characteristics:****Lot Area:** 4,000 sq ft (40' x 100')**# of Buildings:** 1 **Year built:** 1947**# of floors:** 2 **Building Area:** 8,025 sq ft**Total Units:** 1 **Residential Units:** 0**Primary zoning:** M1-5/R7X **Commercial Overlay:** None**Floor Area Ratio:** 2.01 **Max. FAR:** 5FAR may depend on street widths or other characteristics. Contact [City Planning Dept.](#) for latest information.**MORE INFO:**

- **Zoning Map#:** [12a](#) ([how to read](#) NYC zoning maps)
- **Historical Zoning Maps:** [12a](#)
- [NYC Dept. of Buildings](#)
- [Property transaction records](#)
- [NYC Dept. of Finance Assessment Roll](#)
- [NYC Digital Tax Map](#)
- [NYC zoning guide](#)
- [NYC Watershed Resources](#)

OASIS shortcut to this property:<http://oasisnyc.net/printmap.aspx?zoomto=lot:1006020083>

Source: The Bytes of the Big Apple (TM) PLUTO (TM) and Tax Block & Tax Lot files are copyrighted by the New York City Department of City Planning, 2010 (ver. 10v1).

NYC Department of City Planning Census Factfinder

Find all census tracts within mile(s) **YAHOO!** Local search results for this address:*Know of something that's missing? [Add it to YAHOO!](#)*

Mannahatta (1)

Community District (1)**Manhattan 2 Community District Information****Chairperson:** David Gruber**District Manager:** Mr. Bob Gormley**Address:** 3 Washington Square Village, #1A, New York, NY, 10012**Phone:** 212-979-2272 **Email:** cb2manhattan@nyc.rr.com**Website:** <http://www.nyc.gov/manhattancb2>**Meeting Information:**[Go to District Profile](#) by NYC Dept. of City Planning

Political Districts (4)NYC Council: [District 3](#)NYS Senate: [District 29](#)US House of Representatives: [District 13.00000000](#)US Senate: [New York](#)

APPENDIX F
CREDENTIALS

Mostafa El Sehamy, P.G., C.G.W.P., C.E.M.
President, Senior Hydrogeologist

Mr. El Sehamy has over fifteen (15) years of experience in hydrogeology and environmental engineering, involving such activities as groundwater investigation, water quality modeling, ground and surface water quality analysis, environmental impact assessment, remediation design of replacement of domestic well systems in contaminated areas; aquifer sensitivity studies for hydrocarbons and solvents and soil and groundwater investigations of leaking underground storage tanks and pilot venting studies. Mr. El Sehamy has designed over 50 remediation systems for the New York State Department of Environmental Conservation (Oil Spill Prevention) and private sectors. The remediation system involved several techniques, such as pump and treat, soil venting, air sparging, bio-remediation and bio venting. Mr. El Sehamy has also conducted several remedial investigation/feasibility studies in New York State.

Representative Occupational Experience

- ❑ *Groundwater and Hydrologic Modeling*
Groundwater flow and contaminant transport, modeling utilizing MODFLOW, PLASM, MODPATH and WHPA. Hydrologic modeling utilizing HELP. Assessing model inputs and outputs, boundary and initial conditions, model calibrations, verification and sensitivity analysis and performing analytical checks. Hydrologic studies and water analysis.
- ❑ *Environmental Site Assessments*
Conducted Phase I and II Environmental Site Assessments, analysis of site investigation reports, identifying contamination locations and sources. Gas Chromatograph analysis and water sampling, analyzing laboratory results for QA/QC, magnetometer surveys for locating buried drums and underground storage tanks (USTs), estimating UST and other subsurface leaks, septic tank cleanup inspection, liability assessments and estimating costs to attain compliance.
- ❑ *Expert Witness*
Offered expert witness testimony for the New York State Department of Environmental Conservation (NYSDEC) and several private sector cases.
- ❑ *Environmental Impact Statements*
Conducted and supervised several environmental impact statements for shopping centers in the states of New York and North Carolina.
- ❑ *Solute Transport Modeling*
Conducted groundwater flow and solute transport modeling at Superfund, municipal, industrial and water supply sites impacted by organic/inorganic hydrocarbons, PCBs and metals. Developed strategies to contain and clean-up aquifers, protect water supply wells and prohibit impacts to surface water bodies, including containment of free phase product recovery. Analytical and numerical models, such as PLASM, MODFLOW, Random Walk, Quickflow, Flowpath and Groundwater Path were used.

- ❑ *Risk Assessments*
Delineated dissolved petroleum hydrocarbon plume and implemented a risk assessment regarding a subsurface storage tank release into the Long Island Aquifer.
- ❑ *Engineering Compliance*
Auditing manufacturing plants, assessing plant-wide environmental conditions, identifying present and potential RCRA wastes and other environmental problems and offering solutions, SARA Title III calculations, environmental inventorying, compliance status and potential impact analysis of waste disposal practices, air compliance analysis, insurance claims analysis and preparing work plans and engineering reports.
- ❑ *Remedial Investigation and Feasibility Studies*
Oversight/planning of site investigations; data analysis, including statistical analysis and geostatistical contouring utilizing SURFER and GEOSOFT/KRIGING; performance of feasibility studies, including technology evaluations and screening, alternatives development and evaluation and cost estimations.
- ❑ *Due-Diligence Programs*
Designed and implemented due-diligence programs (ranging from Phase I Assessment to Comprehensive Hydrogeologic Investigations) to assess environmental liabilities for numerous land development clientele.
- ❑ *Delineation of Chlorinated Organic Plumes*
Supervised the delineation of a dissolved chlorinated organic plume from underground tank loss. Developed a remedial action program in accordance with New York State regulatory guidelines to abate soil and groundwater contamination.
- ❑ *Research Projects*
Conducted groundwater studies with Nassau County Department of Public Works to investigate the impact of heating oil and solvents on public supply wells in the Levittown and Glen Cove areas of New York State.
- ❑ *Remedial Action*
Prepared remedial action plans. Designed and implemented hydrocarbon remediation systems for soil and groundwater.
- ❑ *Pump Test Aquifer Analysis*
Conducted several pump test aquifer analysis and field coordination in relation to water supply feasibility studies for the New York City Transit Authority.
- ❑ *OSHA Instructor*
Instructed several courses, such as, OSHA 40 Hours Right to Know, CPR, 8 Hour OSHA Refresher, Fall Protection, Confined Space Entry and Lockout/tag-out. Developed safety programs for confine space and accident investigations.

- ❑ *Hazardous Waste Remediation Sites*
Project Manager - RI/FS, pre design investigation, remedial design, construction oversight of the remedial action, and operations and

maintenance of the soil vapor and groundwater treatment systems. Each RI/FS was performed under the direction of NYSDEC.

Employment

2001 - Present	President, Senior Hydrogeologist Hydro Tech Environmental Corp., Commack, New York
1993 - 2001	Director of Professional Services and Safety Fenley & Nicol Environmental, Inc., Deer Park, New York
1992 - 1993	Senior Hydrogeologist Fenley & Nicol Environmental, Inc. Deer Park, New York
1989 - 1992	Hydrogeologist Nassau County Dept. of Health, Mineola, New York
1986 - 1989	Hydrogeologist Fanning, Phillips and Molnar, Ronkonkoma, New York

Education

M.S. Hydrogeology, Adelphi University at Garden City, New York, 1989
Graduate Geology studies, Brooklyn College, City University of New York, 1981
B.S. Engineering Geology, Cairo University, Egypt, 1978

Affiliations and Certifications

- Association of Groundwater Scientists and Engineers
- American Institute of Professional Geologists
- American Association of Petroleum Geologists
- Long Island Geologist Organization
- Environmental Assessment Association
- New York State Asbestos Investigator
- American Society of Safety Engineers
- American Heart Association: CPR Instructor

Registrations and Certifications

- Professional Geologist – Commonwealth of Pennsylvania (P.G.- #001135 – G)
- Licensed Geologist – State of North Carolina (L.G. – #1714)
- Certified Groundwater Professional (C.G.W.P. #364)
- Certified Professional Geologist (C.P.G. # 9206)
- Certified Environmental Manager (C.E.M. # 73492)
- Certified City of New York Asbestos – Investigator (# 03541)

Courses and Seminars

- “Practical Modeling of Pump and Treat Systems using Modflow, Path 3D and Flow Path” Papadupulos & Associates, Inc.
- “Dense Non-aqueous Phase Liquids (DNAPLs): Site Characterization and Remediations” Central New York Association of Professional Geologists.
- “Understanding Migration, Assessment and Remediation of LNAPLs and DNAPLs” National Groundwater Association.
- “Petroleum-Contaminated Soil and Groundwater” University of Massachusetts.
- “Ground water Remediation and Modeling”, Newburgh, New York.

Publications/Presentations

- *A Case Study of the Impact of MTBE on the Investigation and Remediation of a Fuel Oil Release*, National Groundwater Focus Conference MTBE in Groundwater: Assessment, Remediation Technologies & Public Policy, Baltimore, MD June 4-5, 2001.
- *Is MTBE in Fuel Oil? Why MTBE Plays a Major Concern on Long Island*, Long Island Business News, February 2001
- *Cleaning Up UST Leaks*, El Sehamy, Mostafa, Environmental Protection, June 1997.
- *Overview of the Petrex Passive Soil Gas Technique - Two Case Studies*, El Sehamy, Mostafa & Jacobs, Jr., Dave T., Long Island Geologists, April 1996
- *Temporal Constraints on Free Phase Floating Petroleum Product Rebound in the Upper Glacial Aquifer*, Long Island New York, El Sehamy, Mostafa & Winslow, David, Long Island Geologists, April 1996
- *Successful Remediation of Gasoline Spills on Long Island by Application of a Combination of Technologies- Two Case Studies*, El Sehamy, Mostafa & Korlipara, Ravi, Long Island Geologists, April 1995

- 2000 – 2001 Assistant Director, Professional Services
Fenley & Nicol Environmental, Inc., Deer Park, New York
- 1999 – 2000 Senior Geologist
Fenley & Nicol Environmental, Inc. Deer Park, New York
- 1995 – 1999 Operations Director
Advanced Cleanup Technologies, Inc., Farmingdale, New
York
- 1992 – 1995 Project Geologist
Advanced Cleanup Technologies, Inc., Roslyn Heights, New York

Education

B.S. Geology, State University of New York at Oneonta, 1991

Affiliations and Certifications

- American Institute of Professional Geologists
- American Association of Petroleum Geologists
- Long Island Geologist Organization
- Geological Society of America
- American Standards in Testing Materials – E50 Committee Member
- Environmental Assessment Association
- OSHA 40-Hour & 8-Hour, Supervisor

Registrations and Certifications

- Certified Professional Geologist (C.P.G. # 10527)
- Certified Environmental Inspector (C.E.I. # 73383)
- GPR Operator’s Course, Geophysical Survey Systems, Inc., 1993.

Publications/Presentations

- *A Case Study of the Impact of MTBE on the Investigation and Remediation of a Fuel Oil Release*, National Groundwater Focus Conference MTBE in Groundwater: Assessment, Remediation Technologies & Public Policy, Baltimore, MD June 4-5, 2001.
- *Is MTBE in Fuel Oil? Why MTBE Plays a Major Concern on Long Island*, Long Island Business News, February 2001.



DEPARTMENT OF CITY PLANNING
CITY OF NEW YORK

OFFICE OF THE CHAIR

June 2, 2008

REVISED NEGATIVE DECLARATION

Supersedes Negative Declaration issued on January 7, 2008

Project Identification

CEQR No. 07DCP095M
ULURP No. 070575 ZMM
SEQRA Classification: Type I

Lead Agency

City Planning Commission
22 Reade Street
New York, NY 10007
Contact: Robert Dobruskin
(212) 720-3423

Name, Description, and Location of Proposal:

Hudson Square North Rezoning

The City Planning Commission is proposing a modification to the above referenced proposed action involving an application by 627 Realty LLC and KMG Greenwich LLC, for an amendment to the zoning map. The action, as filed, affected five and a half blocks in the West Village/Hudson Square neighborhoods of Manhattan Community District 2 generally bounded by Barrow Street to the north; Hudson Street; Clarkson Street to the south; and West Street to the west, affecting Block 601, Lots 47, 52, 72, 7501, 7502; Block 602, Lots 10, 28, 30, 36, 55, 56, 58, 64, 68, 83, 85, 7501; and Block 603, Lots 28, 37, 46, 49, 51, 53. It would change an existing M1-5 zoning district to a special mixed-use M1-5/R7X district. The affected area is adjacent to the Greenwich Village Historic District, a New York City Landmark listed on the State and National Registers of Historic Places; and the Graphic Arts Historic District, which is potentially eligible for New York City Landmark designation and listing on the State and National Registers of Historic Places.

The proposed revision would reduce the area of the rezoning, to portions of only two blocks within the previously considered area: the properties owned by the applicant (Block 602, Lots 55, 58, 83, and 85); projected Site 3 (Block 602, Lot 64); and projected Site 8 (Block 602, Lot 28). The revised rezoning area would be generally bounded by Morton Street to the north; Hudson Street to the east; Leroy Street to the south; and Washington Street to the west. Under this modification, there would be no change to the existing zoning on Block 601, Lots 47, 52, 72, 7501, 7502; Block 602, Lots 10, 30, 36, 56, 68, 7501; and Block 603, Lots 28, 37, 46, 49, 51, 53. Therefore, the (E) designations proposed for those lots would be removed.

The area to be rezoned is developed with a mix of industrial, commercial and residential buildings. Residential uses are not permitted in the M1-5 zoning district, but a residential community has been established in the area, partly as a result of zoning variances to allow the use. The proposed M1-5/R7X mixed-use district would generally maintain the existing uses and permitted density, while allowing residential conversion and new residential development to occur as-of-right. The existing M1-5 zoning district permits commercial and industrial development at a maximum floor area (FAR) of 5.0, and community facility development at 6.5 FAR. The proposed M1-5/RX zoning would permit a maximum of 5.0 FAR for residential, community facility, commercial, and manufacturing uses. Existing height and setback regulations permit tower developments; the proposed zoning mandates streetwall requirements and a building height limit of 125-feet.

The proposed action would facilitate a proposal by the applicant to develop two sites in the rezoning area. One site, located at 627 Greenwich Street (Block 602, Lot 58), is currently developed with a 12-story, 107,000 square-foot commercial building. The building is mostly vacant, with only one remaining tenant -- a printing company located on seventh floor. The applicant expects to convert the building to residential use. The building could contain up to 107 dwelling units.

The other site controlled by the applicant is located at 111/115 Leroy Street (Block 602, Lots 55, 83, 85). That site is currently developed with a one-story commercial building (Lot 55); a two-story commercial/industrial building (Lot 83) and a 98-space parking lot (Lot 85). The existing buildings would be demolished to facilitate the development of a new, approximately 80,000 square-foot, residential building containing up to 94 dwelling units. The development would include 7,250 square feet of development rights from an adjacent building located at 78 Morton Street (Lot 64), which the applicant has purchased.

In addition to the sites controlled by applicant, the proposed action is projected to result in development on two other sites not under the control of the applicant. Including the applicant's sites, the action is expected to result in a net increase of 254 residential units and 2,674 square feet of new retail space; and a net decrease of 130,845 square feet of commercial space and 98 parking spaces. Under the previous proposal, a total of eight projected development sites and three potential development sites were identified (including the sites controlled by applicant) which could have resulted a net increase of 528 residential units and 23,524 square feet of new retail space; and a net decrease of 373,054 square feet of commercial space and 134 parking spaces.

A Negative Declaration was issued for the above referenced proposal on January 7, 2008. The Negative Declaration included an (E) designation (E-211) for Air Quality and Hazardous Materials. Under this modification, the number of properties receiving (E) designations on Zoning Map 12a for air quality and hazardous materials would be reduced. The provisions of the (E) designations would remain unchanged.

To avoid any potential impacts associated with emissions, the proposed action will include an (E) designation for air quality on the following properties, which includes one of the applicant's properties (Site 2) and projected Site 3:

Block 602, Lots 55, 64, 83, 85

With the implementation of the above (E) designation, no significant adverse impacts related to air quality would occur. The text of the (E) designation would remain as follows:

Block 602, Lots 55, 83, 85:

Any new residential and/or commercial development on the above-referenced property must ensure that the heating ventilating and air conditioning stack(s) be located at least 55-feet if firing No. 2 oil, or 42-feet if firing natural gas, from the lot line adjacent to Block 602, Lot 58 and facing Morton Street and parallel with Greenwich Street; and at least 55-feet if firing No. 2 oil, or 42-feet if firing natural gas, from the lot line facing Hudson Street and parallel with Leroy Street, to avoid any potential air quality impacts.

Block 602, Lot 64:

Any new residential and/or commercial development on the above-referenced property must ensure that the heating ventilating and air conditioning stack(s) be located at least 25-feet from any operable windows or the heating ventilating and air conditioning stack(s) are located at least 3-feet above the roof of the existing building at 423 Hudson Street, to avoid any potential air quality impacts.

The above (E) designations for air quality would ensure that the proposed action would not result in significant adverse impacts due to noise.

In order to avoid any potential impacts related to hazardous materials (E) designations for hazardous materials would be also be included on two projected sites (Sites 3 and 8):

Block 602, Lots 28 and 64

The text of the (E) designation is as follows:

Due to the possible presence of hazardous materials on the aforementioned designated sites there is potential for contamination of the soil and groundwater. To determine if contamination exists and perform and appropriate remediation, the following tasks must be undertaken by the fee owners(s) of the lot restricted by this (E) designation prior to any demolition or disturbance of soil on the lot.

Task 1

The fee owner(s) of the lot(s) restricted by this (E) designation will be required to prepare a scope of work for any soil, gas, or groundwater sampling and testing needed to determine if contamination exists, the extent of the contamination, and to what extent remediation may be required. The scope of work will include all relevant supporting documentation, including site plans and sampling locations. This scope of work will be submitted to DEP for review and approval prior to implementation. It will be reviewed to ensure that an adequate number of samples will be collected and that appropriate parameters are selected for laboratory analysis.

No sampling program may begin until written approval of a work plan and sampling protocol is received from DEP. The number and location of sample sites should be selected to adequately characterize the type and extent of the contamination, and the condition of the remainder of the site. The characterization should be complete enough to determine what remediation strategy (if any) is necessary after review of the sampling data. Guidelines and criteria for choosing sampling sites and performing sampling will be provided by DEP upon request.

Task 2

A written report with findings and a summary of the data must be presented to DEP after completion of the testing phase and laboratory analysis for review and approval. After receiving such test results, a determination will be provided by DEP if the results indicate that remediation is necessary.

Due to the potential presence of hazardous materials on the applicant's properties (Block 602, Lots 55, 58, 83, and 85), the applicant has entered into a restrictive declaration requires that requires the applicant to prepare a hazardous materials sampling protocol including a health and safety plan, which would be submitted to the Department of Environmental Protection (DEP) for approval. The applicant has agreed to test and identify any potential hazardous material impact pursuant to the approved sampling protocol and, if any such impact is found, submit a hazardous material remediation plan including a health and safety plan to DEP for approval. If necessary, remediation measures would be undertaken pursuant to the remediation plan.

The restrictive declaration would serve as a mechanism to assure that the potential for hazardous materials contamination would be characterized prior to any site disturbance (i.e. site grading, excavation, demolition, or building construction) and is binding upon the property's successors and assigns. The restrictive declaration would ensure that the proposed action would not result in significant adverse impacts related to hazardous materials.

Due to the potential presence of archeological resources on the applicant's properties (Block 602, Lots 55, 58, 83, and 85), the applicant has entered into a restrictive declaration requires

that requires the applicant to prepare the applicant perform Stage 1B testing, including soil borings to determine subsurface conditions, such as fill layers, to be carried out with the review and approval of the Landmarks Preservation Commission (LPC). Should testing indicate that the site contains artifacts, mitigation measures which could include a full-scale evacuation to be conducted under the supervision of LPC, may be required.

The restrictive declaration would serve as a mechanism to assure that the potential for recovering archeological resources would be characterized prior to any site disturbance (i.e. site grading, excavation, demolition, or building construction) and is binding upon the property's successors and assigns. The restrictive declaration would ensure that the proposed action would not result in significant adverse impacts related to historic resources.

Statement of No Significant Effect:

The Environmental Assessment and Review Division of the Department of City Planning have completed its technical review of the Environmental Assessment Statement dated December 4, 2007 prepared in connection with ULURP No. 070575 ZMM. On behalf of the City Planning Commission, the Environmental Assessment and Review Division has determined that the proposed action will have no significant effect on the quality of the environment.

Supporting Statement:

The above determination is based on an environmental assessment which finds that:

1. The (E) designations for air quality and hazardous materials would ensure that no significant adverse impacts due to air quality or hazardous materials would result from the proposed action.
2. A Phase I Environmental Site Assessment (ESA) was performed for the Hudson Square rezoning, adjacent to the proposed rezoning area. The Phase I ESA was reviewed by DEP's Office of Environmental Planning and Assessment, and Phase II testing was recommended by DEP, due to the presence of hazardous materials on the site as a result of past and present on- and off-site land uses.

The restrictive declaration, binding on all successors and assigns of the applicant, requires that additional Phase II testing be prepared, including a sampling protocol and a health and safety plan for DEP's review and approval. If hazardous materials impacts exist, the declaration requires that the applicant submit a remediation plan for DEP's review and approval and provide for such remediation. The declaration serves as a mechanism to assure the potential for historic resources that may exist in the sub-surface soils on the applicant's property would be characterized prior to any site disturbance.

The declaration was executed on October 23, 2007. On October 31, 2007, DEP confirmed, via written correspondence, that the applicant filed a DEP-approved Restrictive Declaration with the New York City Department of Finance of the City Register.

3. A Stage 1A Documentary Study was performed on the applicant's properties (Block 602, Lots 55, 58, 83, and 85). The Documentary Study ESA was reviewed by the Landmarks Preservation Commission (LPC) and Stage 1B testing was recommended by LPC, due to the potential presence of archeological resources on the site as a result of past land uses.

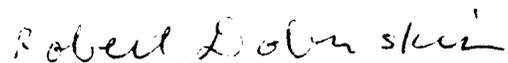
The restrictive declaration, binding on all successors and assigns of the applicant, requires Stage 1B testing, including soil borings to determine subsurface conditions, such as fill layers, with the locations of borings for LPC's review and approval. If historic resource impacts are found, the declaration requires that the applicant submit an excavation plan for LPC's review and approval and provide for such remediation. The declaration serves as a mechanism to assure the potential for hazardous material contamination that may exist in the sub-surface soils and groundwater on the applicant's property would be characterized prior to any site disturbance.

The declaration was executed on January 2, 2008. On January 3, 2008, DCP received written confirmation that the applicant filed a LPC-approved Restrictive Declaration with the New York City Department of Finance of the City Register.

4. Noise levels at some locations within the rezoning area are in the "marginally unacceptable" category, requiring a minimum window-wall attenuation of 35 dBA to maintain interior noise levels of 45 dBA. Section 123-32 of the Zoning Resolution requires all new residential developments and conversions within mixed-use zoning districts to provide a minimum of 35dBA window-wall sound attenuation. Therefore, no significant adverse impacts due to noise would result from the proposed action.
5. No other significant adverse effects on the environment which would require an Environmental Impact Statement are foreseeable.

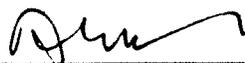
This Negative Declaration has been prepared in accordance with Article 8 of the Environmental Conservation Law 6NYCRR part 617.

Should you have any questions pertaining to this Negative Declaration, you may contact Robert Dobruskin at (212) 720-3423.



Robert Dobruskin, AICP, Director
Environmental Assessment & Review Division
Department of City Planning

Date: 05/30/08



Amanda M. Burden, FAICP, Chair
City Planning Commission

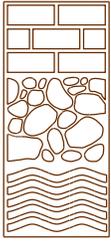
Date: 06/02/08

GEOTECHNICAL REPORT
111 Leroy Street
New York, New York

Property Markets Group, Inc.
111 Fifth Avenue, 6th Floor
New York, NY 10003

Mueser Rutledge Consulting Engineers
14 Penn Plaza, 225 W. 34th Street
New York, NY 10122

October 28, 2015



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October 28, 2015

Property Markets Group, Inc.
111 Fifth Avenue, 6th Floor
New York, New York 10003

Sent via email
(asullivan@propertymg.com)

Attn: Mr. Anthony Sullivan

Re: Revised Geotechnical Report
Modified Project Design
111 Leroy Street
New York, NY
MRCE File 10758B

Mr. Sullivan:

We prepared a geotechnical report dated January 29, 2015 summarizing our 2006 and 2014 site investigation programs, our interpretation of the subsurface conditions encountered, and our recommendations for foundation design and construction for the proposed project.

Recently, we were informed that the proposed building design was not approved by the NYC Board of Standards and Appeals. Subsequently, we were provided with a set of drawings showing a modified building design. This report revises our January 2015 report to reflect the modified building design.

EXHIBITS

The following documents are attached to illustrate the project and subsurface conditions:

Exhibits	Description
Plate No. S-1	Site Location Plan
Plate No. S-2	1865 Topographical Map
Drawing No. BP-1	Boring Location Plan
Drawing No. GS-1	Geologic Section A-A
Drawing No. GS-2	Geologic Section B-B
Drawing No. GS-R	Geotechnical Reference Standards
Drawing No. RC-1	Rock Core Classification Criteria
Table No. 1	Soil Design Parameters

Figure No. 1	2014 NYC Building Code Liquefaction Screening Diagram
Figure No. 2	Site Specific Liquefaction Assessment
Appendix A	MRCE Boring Logs
Appendix B	MRCE Test Pit Logs and Photographs

SITE DESCRIPTION

The 111 Leroy Street project site is in New York, New York within the block bordered by Leroy Street to the south, Greenwich Street to the west, Morton Street to the north, and Hudson Street to the east as shown on Plate No. S-1.

The site consists of an irregularly shaped parcel consisting of Lots 55, 83 and 85. The combined lot area is about 16,500 square feet. Lot 55 is currently occupied by a one-story building, while Lot 83 is occupied by a 2-story building. Lot 85 is used as an at-grade parking lot with vehicle stackers in the west and north sections of the lot. A 24 ft. wide alleyway extends north to Morton Street at the rear of Lot 85.

MODIFIED PROJECT DESCRIPTION

The modified project consists of demolition of the existing buildings at Lots 55 and 83 followed by construction of five 3 to 5-story townhouse buildings (TH1 through TH5) and a 10-story tower building. The 10-story tower building includes two levels of mechanical space occupying a smaller footprint above roof level. TH1 through TH5 will front on Leroy Street in a consecutive order from west to east. The 10-story tower will abut the existing 9-story building on Lot 68 to the east. The footprint of the cellar below the buildings will be approximately 14,000 square feet.

We understand that the finished basement floor for TH2 through TH5 and the tower building will be approximately 10 feet below the Leroy Street sidewalk grade, or at about El +4. The finished basement floor for TH1 will be approximately 5 feet below the Leroy Street sidewalk grade (about Elev. +9) with the first floor slab about 5 feet above the sidewalk grade.

Ground surface elevations range from about Elev. +14 on Leroy Street to about Elev. +17 in the alleyway that extends north to Morton Street. Elevations cited in this report refer to the Borough President of Manhattan (BPM) Datum in which Elev. 0.0 is about 1.6 feet above the NAVD 88 Datum.

AVAILABLE INFORMATION

We have used the following information in the preparation of this report.

1. 111 Leroy Street, Site Plan and Sections, dated August 19, 2015, prepared by Workshop.
2. Site Survey Plans, dated 2006, prepared by Harwood Surveying P.C.
3. Miscellaneous site historic and geologic information from MRCE files.

SITE GEOLOGY AND LAND USE HISTORY

The site is within an area where natural soils include glacial till over glacial lake deposits over deeper glacial till underlain by bedrock. Bedrock below the site is the Manhattan Formation consisting of gneiss, schist, and schistose gneiss with occasional pegmatite intrusions.

The 1865 Egbert L. Viele Map (see Plate No. S-2) indicates that the site was a flat meadow land with a topographic high along Leroy Street west of Greenwich Street. The site is about 300 feet east of the pre-Colonial Hudson River shoreline. No former streams or marsh lands are mapped close enough to the site to influence subsurface conditions.

The 1885 Robinson's Atlas of the City of New York indicates that the site was occupied by brick buildings. Steam railroad lines ran along Greenwich Street, while horse or cable car lines traveled along Hudson Street. The 1916 and 1927 Landbooks show that a 5-story building with a basement once occupied the present alleyway. There were multiple 3-story buildings with basements facing Leroy Street and Greenwich Street. The current buildings at Lots 56, 58 and 64 are shown on the 1916 and 1927 Landbooks. The building at Lot 55, which is presently a one-story building, is shown as a three-story building with a basement. There were 6 to 8-story buildings at Lot 68.

The 1934 Landbook shows that the buildings on the eastern half of the site facing Leroy Street were demolished and the building at Lot 55 was rebuilt to a one-story building. The building at Lot 68 was also built. All other buildings on the previous Landbooks continued to exist. The 1955 Landbook shows that the building at Lot 83 and a one-story building immediately east of Lots 55 and 56 was built facing Leroy Street. The two three-story buildings at the corner of Leroy Street and Greenwich Street were demolished. The 1985 Landbook indicates that the one-story building east of the buildings at Lots 55 and 56 were demolished and the building at Lot 64 built. Also, the one-story building immediately south of the building at Lot 55 was demolished. The 2002 Landbook continues to show the same site features as those shown on the 1985 Landbook.

The Base Flood Elevation (BFE) of the adjacent Flood Zone AE, which is west of Washington Street, is at Elev. 11 in NAVD 88. That elevation converts to about Elev. 9.4 in the BPM datum.

SUBSURFACE EXPLORATION

Borings - The subsurface exploration program performed in 2006 consisted of six borings (B-1 through B-6) made between October 23 and November 2, 2006. Borings were made by Aquifer Drilling and Testing, Inc. (ADT) of New Hyde Park, New York under the continuous inspection of MRCE Engineer, Ms. Carol Hawk. In 2014, one additional boring (B-7) was drilled to account for the increased footprint of the proposed building per the NYC Building Code. The boring was made on December 19, 2014 by Warren George Inc. under the continuous inspection of MRCE Engineer, Mr. Christos Zoupantis.

Drawing No. B-1 presents the as-drilled boring locations and surface elevations surveyed by a professional surveyor under contract to ADT. The as-drilled boring location and surface elevation for the most recent boring (B-7) was estimated by our field Engineer. The borings were advanced by rotary drilling techniques using casing and drilling mud to stabilize the boreholes. Borings B-3 and B-5P were drilled by a track-mounted drill rig, while Borings B-1P, B-2, B-4, B-6, and B-7 were drilled by a truck-mounted drill rig. All borings were drilled to a minimum depth of about 70 feet,

except for B-7, which was drilled to a depth of 62 feet below grade. Where bedrock was encountered at or above the minimum depth, the boring was extended a minimum of 5 feet into bedrock as in Borings B-1P, B-2, B-3 and B-6.

Representative soil samples were obtained with a 2-inch O.D. (1-3/8 inch I.D.) split-spoon sampler driven with a 140-pound hammer free falling 30 inches. Split-spoon samplers were driven a total of 24 inches at each sample interval. The number of blows required to drive the sampler through four six-inch intervals was recorded. The numbers of blows for the second and third intervals are summed to obtain the Standard Penetration Test (SPT) resistance, also termed N-value. The N-value is an indication of the relative density of the material sampled. Where soils are too dense or gravel, boulders or other obstructions were encountered that limited penetration of the sampler to less than 24 inches, the number of blows and the actual penetration of the sampler were measured and recorded. Soil samples were placed in glass jars for preservation.

Where encountered, rock was sampled in core runs that were typically five feet in length. Bedrock samples were obtained using a double-tube NX-series diamond-bit core barrel. Boulders and cobbles were typically cored using a single-tube HQ-series diamond-bit core barrel. Percent recovery (REC) and Rock Quality Designation (RQD) were determined for each core run. Percent recovery is defined as the length of core recovered divided by the length of core run, expressed as a percentage. RQD is defined as the sum of recovered pieces 4-inches or greater in length between natural breaks divided by the length of the core run, expressed as a percentage. RQD is an indication of the relative frequency of jointing or natural fracturing of the bedrock. Mechanical breaks were not factored into the RQD values. Soil and rock samples were delivered to our laboratory for verification of field classifications.

Upon completion of each boring, ADT either tremie grouted the borehole with a cement-bentonite mixture or installed a piezometer for measuring groundwater levels. The most recent boring (B-7) was backfilled using soil cuttings with the surface pavement restored with concrete. Borings containing a piezometer are indicated with a letter suffix 'P' after the boring number.

Groundwater observation wells were installed in 2006 in Borings B-1P and B-5P. The wells consist of 2.4 inch I.D. PVC pipe extending to Elev. -27 and Elev. -23, respectively. The bottom 10 feet of each standpipe is slotted and surrounded by clean sand to allow free water movement. Our field Engineer performed falling head tests in the wells to verify proper function of the piezometers. The wells remain on site for future groundwater observations.

Test Pits - The test pit program consisted of six test pits (TP-1 through TP-6) made between July 29 and August 13, 2014 at the locations shown on Drawing BP-1. The test pits were made by J. Coffey Contracting under the continuous inspection of MRCE Engineer, Mr. Benjamin Geho.

Our Resident Engineer sketched the test pits in plan and section and recorded depths of the exposed footings below a reference point at each test pit. The test pit logs and photographs are provided in Appendix B. The reference points were marked with orange color paint and their elevations need to be surveyed to relate the footing depths to elevations.

The following is a summary of our findings in each test pit:

- TP-1 exposed two abandoned brick walls running parallel to the north and west walls of 625 Greenwich Street. The walls extended to a depth of 4 feet 8 inches and are supported on a 3 foot thick concrete footing. The foundation of 625 Greenwich Street was exposed behind the abandoned wall on the west side of the pit and consists of a brick wall to a depth of about 11 feet 9 inches bearing on a 3 foot thick concrete footing.
- TP-2 exposed the retaining wall foundation for the depressed areaway of the adjacent property. The foundation was exposed on the west side of the pit and consisted of a brick wall to a depth of about 8.5 feet bearing on a 1 foot thick concrete footing.
- TP-3 was stopped at a depth of 7.5 feet when an abandoned heating oil tank was discovered that prevented further excavation adjacent to the building.
- TP-3A discovered an abandoned stone wall immediately adjacent to the foundation wall of the building at Lot 58. Abandoned stone walls were also found perpendicular to the building wall on the north and south sides of the pit. The stone wall on the west side extended to a depth of 12 feet and was founded on an approximately 8 inch thick stone block. The adjacent building wall consisted of a brick wall to a depth of about 12 feet bearing on a 3 foot thick concrete footing founded at a depth of about 15 feet 8 inches below grade.
- TP-4 found abandoned stone walls on the south and west sides of the pit. An abandoned brick wall was also found in the northeast corner of the pit. The adjacent building foundation consisted of a brick wall to a depth of about 11 feet bearing on a 7 inch thick stone block.
- TP-5 found the adjacent foundation wall bearing at two different levels within the roughly 7 feet length of wall exposed in the test pit. The northern 6 feet extended to a depth of 7 feet and the southern 1 foot extended to a depth of 5 feet. No enlarged footing was found at the bottom of the wall. An abandoned stone wall was found on the west side of the pit.
- TP-6 was excavated adjacent to the east wall of the existing 2-story building at Lot 83. A concrete mass approximately 11 inches thick was discovered at a depth of about 12 feet, which may be remnants of an old floor slab. The foundation of the 2-story building is cast in place concrete and extends to a depth of 17 feet-8 inches. Groundwater was encountered at a depth of about 17 feet. The adjacent 9-story building has a basement with top of floor slab about 11 feet below grade. In the northeast corner of the pit, a 9 inch vertical gap in the wall was discovered at a depth of about 11 feet, and continued to the bottom of the wall. After clearing the soil in the gap, it was discovered that the concrete wall was about 3 feet thick. Local probing through the gap indicated that the adjacent building foundation is either above a depth of 13 feet or not present near the gap.

The depth of the foundation wall is unusual for a 2 story building and may indicate that the building was either (1) constructed using the foundations of a prior building with a basement or (2) was underpinned during construction of the adjacent 9 story building. Excavated soils from this test pit included a substantial amount of brick and concrete debris.

BUILDING DEPARTMENT SEARCH

We performed a search of the NYC Department of Buildings archives for available foundation drawings for the adjacent buildings, but could not find any drawings.

SUBSURFACE CONDITIONS

Our interpretation of typical subsurface conditions based on the borings made under our inspection is illustrated on the geologic sections provided on Drawings Nos. GS-1 and GS-2. Boring information shown on the geologic sections includes sample number and position, sampler penetration resistance (SPT N-Value) and the Unified Soil Classification System (USCS) soil group symbol for each sample. Core number and position, percent recovery and RQD are shown for each rock core run. A summary of the soil classification system and rock classification criteria are provided on Drawings Nos. GS-R and RC-1. Detailed sample descriptions are provided on the boring logs in Appendix A.

General descriptions of materials encountered in the borings are summarized below in the order of their occurrence with depth:

Stratum F – Fill (NYC Class 7): Miscellaneous fill was found at the surface in all borings. This stratum was identified by the presence of non-natural materials such as brick, asphalt, and cinders. The boundary between the fill and underlying natural soil is not definitive as the fill was probably reworked local natural soil. Based on historic land use of the site and the maximum depth to which the non-natural materials were found, we estimate that the boundary is between about 12 feet and 14 feet below grade. Locally deeper fill is expected at Lot 83 based on the results of Test Pit TP-6.

Stratum F consists of very compact to loose brown and red brown fine to coarse sand, some silt and gravel, trace asphalt, cinder and brick fragments. N-values range from 5 blows per foot to 50 blows per foot with most values between 5 blows per foot and 30 blows per foot. Significant remnants of former foundations are expected in the fill based on observations in the test pits.

Stratum T1 – Glacial Till (NYC Classes 3a & 3b): Natural glacial till exists beneath Stratum F in all borings. This stratum extends to depths ranging between 16 feet and 24 feet below grade. Stratum T1 consists of medium compact to compact brown and red brown fine to coarse sand, some to trace silt and gravel varying to medium compact brown gravelly fine to coarse sand, some silt with occasional boulders. N-values range from 15 blows per foot to 45 blows per foot. This stratum appears to be an ablation glacial till which was not ice-loaded as indicated by relatively low N-values.

Stratum S – Fine Sand (NYC Class 3b): Fine sands occasionally inter-layered with silt (Stratum M) underlie Stratum T1. This stratum, ranging to a depth of about 58 feet, is a glacial lake deposit over deeper glacial till. Stratum S typically consists of medium compact brown and red brown fine sand, some silt, trace mica occasionally inter-layered with silt (Stratum M) particularly near the top and bottom of the stratum. N-values range from 10 blows per foot to 30 blows per foot.

Stratum M – Silt (NYC Class 5): This stratum, also a glacial lake deposit, is often embedded within Stratum S. Stratum M consists of medium compact to loose red brown fine sandy silt, trace

coarse sand and mica. N-values range from 10 blows per foot to 23 blows per foot with one occasion where the spoon was pushed within this stratum.

Stratum T2 – Glacial Till (NYC Classes 3a & 3b): Stratum T2 is glacial till that predates the deposition of the glacial lake deposits described above. This stratum, which extends to bedrock, consists of very compact to medium compact brown and red brown fine to coarse sand varying to very compact to medium compact red brown fine to coarse sandy gravel, some silt. Boulders and cobbles were occasionally encountered in this stratum. N-values range from 20 blows per foot to 68 blows per foot with occasional refusal (greater than 100 blows/feet) of the split-spoon sampler probably due to the presence of boulders and cobbles at the sample depth.

Stratum R – Bedrock (NYC Classes 1b and 1c): In Borings B-1P, B-2, B-3, and B-6 bedrock was cored a minimum of 5 feet. Bedrock is typically medium hard slightly weathered to unweathered, gray mica schist to gneissic schist, closely jointed to moderately jointed, slightly weathered to unweathered joints varying to medium hard unweathered white gray pink pegmatite, jointed, unweathered joints to iron stained joints. Rock core recoveries vary between 36 and 98 percent with an average value of about 80 percent. RQD varies between 8 and 85 percent with an average value of about 57 percent.

Groundwater Levels

2006 Readings - Our Resident Engineer measured groundwater levels in the two observation wells installed during the subsurface investigation. In addition, there was an existing well in Leroy Street near the southeast corner of the site that we understand was installed as part of an environmental study for the site. Our Resident Engineer also took readings in that well to supplement our groundwater level measurements.

Our measurements, taken over a 2-week period in November 2006, indicate that groundwater levels at the site were at about Elev. -2.9 in B-1P and in B-5P. The water levels in the environmental well on the Leroy Street sidewalk were at about Elev. -3.0.

2013 Readings - On July 16, 2013, our Engineer visited the site to take groundwater levels in the existing observation wells. However, the fastening bolts on the well cover at B-1P were rusted and the cover would not open. The bolts at the well cover at B-5P were also rusted, but our engineer managed to open it and measured water level at Elev. -6.2. This groundwater level was about 3 feet lower than those measured in 2006.

On July 30, 2013, our Engineer visited the site again with additional equipment to open the well cover at B-1P. He also opened the well cover of the environmental well and was able to measure groundwater levels in all three wells (B-1P, B-5P and the environmental well). Well readings at the time indicated groundwater levels in B-1P, B-5P and the environmental well at about Elev. -5.8, Elev. -5.9 and Elev. -5.4, respectively. These groundwater levels were about 2.5 ft. to 3 ft. lower than those measured in 2006.

2015 Readings - On January 15, 2015, our Engineer visited the site to take groundwater levels in the observation wells. The three water levels taken from B-1P, B-5P and the environmental well in the Leroy Street sidewalk were at Elev. -3.3, Elev. -3.5 and Elev. -3.7, respectively. These groundwater levels are higher than the 2013 water levels, but close to the measurements in 2006.

On August 31, 2015, our Engineer visited the site and measured water levels at Elev. -4.4, Elev. -4.6 and Elev. -4.3, respectively, from B-1P, B-5P and the environmental well in the Leroy Street sidewalk. These groundwater levels are about one foot lower than the January 2015 water levels, but about one foot higher than the measurements in 2013.

The water level measurements made between 2006 and 2015 indicate that groundwater levels beneath the site vary between about Elev. -3 and Elev. -6.

Groundwater levels can rise during or after severe storms. Leaky underground utilities can also cause the groundwater level to rise temporarily above the normal water level. As such, the groundwater level at the time of construction may be different from the levels observed at the time of our field investigations.

SEISMIC CONSIDERATIONS

The proposed buildings must be designed in accordance with the 2014 NYC Seismic Code. The Code requires an evaluation of 1) the potential hazard of soil liquefaction under the seismic design event specified by the Code and 2) seismic site class to determine seismic design parameters.

The NYC Seismic Code requires a determination of the liquefaction potential for soils below the groundwater table and less than 50 feet below the ground surface. The attached Figure No. 1 is the Liquefaction Assessment Diagram plotted per the 2014 NYC Seismic Code. The diagram shows that most of the data fall in the “Liquefaction Probable” zone with some falling in the “Liquefaction Unlikely” zone for Structural Occupancy Categories II/III. Since the Liquefaction Assessment Diagram is known to be conservative, we performed a site specific liquefaction study as described below.

Site Specific Liquefaction Study - We evaluated the liquefaction potential of the soils below the water table using the Seed and Idriss (1971) simplified procedure, as modified by the NCEER Workshops (Youd et al, 2001). To evaluate the liquefaction potential, we compared the seismic demand in the soil during the design earthquake event to the available strength of the soil to resist liquefaction. For the demand, we selected a design earthquake event consistent with the 2014 NYC Code having an earthquake magnitude (M_w) equal to 6.25 and Peak Ground Acceleration (PGA) of 0.24g for a Site Class D.

We estimated the strength of the soils to resist liquefaction based on empirical correlations using the SPT N-values from the borings corrected for the effects of overburden (C_N , Liao and Whitman, 1986), rod length (C_R , Skempton Correction Factors), hammer energy ratio ($C_E = 0.8$ for donut hammer), borehole diameter ($C_B = 1.0$ for borehole diameter of 4-inch), sampling method ($C_s = 1.0$ for standard sampler), and Fines Content ($FC = 15\%$). We conservatively assumed a fines content of fifteen percent, as the borings indicated the natural sands (Stratum S) have considerable fines (i.e. soil sizes finer than the No. 200 sand such as silt and clay). We also conservatively used a groundwater level at Elev. -3 based on the highest recorded ground water readings. A Magnitude Scaling Factor (MSF) of 1.388 per Idriss’s recommendation (Youd et al, 2001) was used to adjust the soil strength for a design earthquake magnitude of 6.25. For a Structural Occupancy Category II structure, we judge that a Factor of Safety (FS) greater than 1.0 is sufficient to exclude liquefaction and liquefaction-related hazards.

Figure No. 2 illustrates the results of the site specific liquefaction analysis performed using the field SPT data in terms of the factor of safety against liquefaction with depth for all seven borings. Most of the data on the figure fall to the right of the FS=1.0 line, indicating that the soils have factors of safety against liquefaction greater than 1.0. Figure No. 2 shows a few scattered data points plotted on the left side of the FS=1.0 line indicating isolated loose sand layers within predominantly medium dense Stratum S sands. Based on the site specific liquefaction study, we conclude that liquefaction is unlikely for the soils beneath the site. A Site Class D is therefore appropriate for this site based on the results of our subsurface investigation. We assume that the proposed building belongs to Occupancy Category II.

SOIL AND GROUNDWATER DESIGN PARAMETERS

On the basis of the results of the borings, we recommend the soil design parameters shown on Table No. 1 for use in the design of foundations and temporary construction works such as excavation shoring.

Groundwater Levels – Based on the water levels observed in the observation wells and possible seasonal variation of groundwater level, we recommend use of a design water level at Elev. +2.

Based on the base flood elevation (BFE) of the adjacent Flood Zone AE at about Elev. +9 (BPM), we recommend that the foundation wall be designed to survive the BFE flood elevation. Some overstress of the wall under the temporary flood conditions can be allowed.

Frost Penetration – All foundations should extend below a depth of four feet to account for frost penetration.

FOUNDATION RECOMMENDATIONS

Foundation Support – Available information indicates that with the exception of townhouse TH1, the top of the proposed cellar slab will be about Elev. 4±, or about 10 feet below the sidewalk grade at Leroy Street (Elev. 14±). As shown on Drawings GS-1 and GS-2, the proposed cellar construction will remove most of the fill and locally the upper surface of Stratum T1. We recommend support of the proposed building either on spread footings or a mat foundation bearing in Stratum T1 at an allowable bearing pressure of three (3) tons per square feet.

Stratum F is not suitable for supporting foundation elements. The boundary between the fill and Stratum T1 is not definitive as the fill is probably reworked material originated from Stratum T1. Local areas may have deeper fill than encountered in borings. If fill is present below the proposed footing subgrade level, we recommend that the fill be removed and replaced with structural backfill or the footings lowered to bear on natural soils. The foundation wall of the existing building at Lot 83 was found in Test Pit TP-6 to extend about 7 feet below the proposed slab, so the fill extends to that depth along the wall. New footings along the property line will have to be supported either on the natural soil below the fill, or on compacted structural fill, or require special measures to avoid loading of adjacent structures and removal of existing foundations along the lot lines as further described in the Construction Recommendations section of this report. Structural backfill for footing support must comply with the requirements for controlled fill in the NYC Building Code in order to use the same allowable bearing pressure for footings or mat foundation founded on natural soils.

Footing width should be at least 18 inches for an allowable bearing value of three tons per square feet.

Cellar Slab – Based on the water levels observed in the piezometers and possible seasonal variation of the groundwater table, we recommend designing the cellar slab and walls on the assumption that groundwater may rise to Elev. +2. The cellar slab may be a slab-on-grade bearing on Stratum F or Stratum T1. Slab on grade construction should include a 6-inch gravel bedding course and vapor barrier on the slab underside to cut off capillary rise and mitigate moisture infiltration through the slab. All construction joints should be furnished with expansive waterproofing strips such as Swellseal Joint.

Foundation Walls - The NYC Building Code requires that the foundation wall be designed to support the full hydrostatic pressure of undrained backfill, unless a foundation drainage system is installed. We understand that the NYCDEP does not allow the installation of a footing drain system that discharges groundwater into the city sewer.

Foundation walls should be designed for lateral pressure due to earth, water and sidewalk load surcharge consistent with the NYC Building Code. Lateral earth pressures above the water table may be computed using equivalent fluid pressures of 36 psf per foot of depth and 60 psf per foot of depth for a flexible wall and a rigid wall, respectively. Lateral earth pressures below the water table may be computed using equivalent fluid pressures of 80 psf per foot of depth and 92 psf per foot of depth for a flexible wall and a rigid wall, respectively. A flexible wall is defined as a wall without bracing, whereas a rigid wall is defined as a wall braced by floor slabs. Foundation walls must also accommodate temporary increases in lateral pressure such as may occur from a rise in water level during a flood event or temporary stock piling of materials or equipment adjacent to the structure. We recommend that water level during a flood event be assumed to rise to Elev. +9, which is the base flood elevation of the adjacent Flood Zone AE.

Backfill between the excavation support system and the cellar walls should be compacted to 90 percent Modified Proctor maximum dry density using a walk-behind compactor such as a jumping jack. Heavy dynamic compaction equipment should not be operated within 10 feet of the cellar wall to avoid high lateral pressures on the wall.

The wall below grade should be waterproofed using a membrane waterproofing product applied to the exterior face of the wall covered with protection board. We recommend that the single-formed wall be water-proofed using a sheet membrane such as Preprufe 160R placed outside the wall. The sheet membrane is typically applied to the face of an excavation support system or to existing building walls, and the wall can be cast against the waterproofing. If the wall is double-formed, Bituthene or similar products would be installed outside the cured concrete wall. Form ties penetrating the wall often result in leaks so we recommend that the forms be braced. Construction joints should be furnished with expansive waterproofing strips such as Swellseal joint.

Pavement surrounding the building should be pitched to promote surface drainage away from the building.

CONSTRUCTION RECOMMENDATIONS

Excavation Support - Soils around the perimeter of the excavation must be retained by a temporary excavation support system. The support system selected should be stiff enough such that lateral soil movements will not lead to subsidence of sidewalks or damage to buried utilities. The excavation support system should be designed by a Professional Engineer licensed in the State of New York. If the system is designed by the Contractor, it should be submitted to the Owner's Engineer for review prior to installation.

Underpinning – The proposed building will abut the buildings at Lots 56 and 68 as shown on Drawing No. BP-1. Based on test pit TP-1, the foundation of the building at Lot 56 extends to about Elev. +1, which is about 3 feet below the top of the proposed cellar slab for TH 2 through TH5. Assuming a 12 inch thick slab system and 3 foot thick footings, the adjacent building must be underpinned for new footings. Alternatively, the slab and the footings along the property line may be raised such that the base of new footings is about 12 inches above the base of the adjacent footings to avoid underpinning. The top of the proposed cellar slab for TH1 is about 8 feet higher than the base of the building exposed in the test pit. No underpinning would be necessary, but new footings on the north side of TH1 should extend to the same level as the base of the adjacent building.

Based on test pit TP-6, the foundation wall of the existing building at Lot 83 extends deeper than the adjacent foundation at Lot 68 due to prior construction or underpinning of the existing building. The adjacent building at Lot 68 will need to be underpinned to facilitate removal of the existing foundation wall and construction of new footings along the property line. Once the existing wall is removed, new footings would need to extend to the base of the underpinning piers, and the footing excavation/ underpinning approach pits backfilled using compacted structural fill to the slab subgrade for new cellar construction. Alternatively, the footing subgrade can be raised using compacted structural backfill to the desired subgrade level.

Underpinning should be designed by a Professional Engineer licensed in the State of New York. If underpinning is designed by the Contractor's engineer, it should be submitted to the Owner's Engineer for review and approval.

Reuse of Foundation Wall – Underpinning the adjacent building to remove the existing foundation wall of the building at Lot 83 in its entirety would be very expensive. Hence, it would be worthwhile to consider an option of either utilizing the existing wall for the new construction or leaving the existing wall in place below the new foundation. The foundation exposed in test pit TP-6 was 3 foot thick concrete wall extending about 18 feet below grade, but the wall composition, structural soundness and depth to the base of the wall may vary along the property line. Hence, if this option is considered, additional test pits are recommended to thoroughly document the condition of the existing foundation wall along the property line and confirm presence of undisturbed natural soil below the wall. If test pits show that the foundation wall is uniform in thickness and composition, and structurally sound, the entire wall below grade may be utilized for the new construction. Structural assessment of the existing wall must be performed to pursue this option; and the project Structural Engineer should lead such assessment.

If the wall varies in thickness and composition along the property line, and it is not suitable for structural reuse, the portion of the wall below new footing subgrades may be left in place. The top of the left-in-place wall should be about 12 inches higher than the base of the adjacent wall, but low

enough for new footings to be constructed below the cellar slab. The original wall was probably constructed by excavating to the base of the foundation wall with sloped sides; and the excavation may have been backfilled in an uncontrolled manner. The disturbed soil must be improved to support footings and slab on grade. We recommend that the soil over a width of about 5 feet along the foundation wall be removed to a minimum of 2 feet below the top of the remaining foundation wall and proof-compacted to identify and compact loose zones within 2 to 3 feet of the compaction surface. Removing the soil along the foundation wall would also remove the earth pressure laterally supporting the soil below the foundation of the building at Lot 68. In order to minimize disturbance to the force equilibrium system, we recommend that the soil be removed and backfilled sequentially in 10 foot sections along the wall.

Proof-compaction can be performed using a walk-behind roller such as WBR75D having a minimum eccentric force of 5,000 pounds for 30 inch wide drums. Following proof-compaction, compacted structural backfill should be placed to slab subgrade as described below. This approach assumes that the existing foundation wall is bearing on natural soil with an allowable bearing pressure of 3 tons per square feet, and the soil within the strip along the foundation wall, which may have been disturbed during the original construction, will be improved by over-excavation and proof-compaction.

Construction Dewatering – Since the 2015 groundwater levels are about six feet below the top of the proposed slab, no general construction dewatering will be necessary. However, excavation for new footings adjacent to the building at Lot 68, if underpinning is performed for the adjacent wall, will require dewatering as footing excavation needs to be extended to or slightly below the water level. Also, construction dewatering will be necessary for sump pits and elevator pits, if they extended below the water table. We recommend that the groundwater level be lowered at least 2 feet below the excavation subgrade prior to excavation. Natural soils at subgrade have a tendency toward softening, if excavation is made without proper dewatering ahead of time. A dewatering system must be carefully designed by an experienced Contractor.

Surface water should not be allowed to accumulate on the subgrade. Men and equipment working on a wet subgrade will disturb the subgrade. If that happens, remedial work including excavation of disturbed material and replacement with compacted structural backfill or flowable fill will be necessary.

Footing Inspection - Footing or mat subgrades are subject to controlled inspection by a Special Inspection Agency in accordance with the NYC Building Code and poured on the same day of inspection. If the pouring is delayed, the subgrade must be protected from disturbance by pouring a thin mud mat consisting of at least 3 inches of lean concrete.

Structural Backfill – Over-excavated areas should be raised to the footing or slab subgrade using structural fill meeting or exceeding the New York City Building Code requirements for controlled fill. The structural fill should consist of a clean, well graded sand, or sand and gravel with a maximum of 10 percent of the sand fraction passing the No. 200 sieve, and a maximum size particle of 2 inches. The fill should be placed in level lifts, a maximum of 12 inches thick, and compacted to at least 95 percent of Modified Proctor (ASTM D-1557) maximum dry density. The source of fill should be approved by the Engineer prior to start of fill placement. The fill placement should be subject to controlled inspection. Typically, a soil testing laboratory is retained by the Owner to test the density of each lift at selected locations to confirm that the compaction is performed as specified.

If flowable fill approved by Geotechnical Engineer is used in lieu of structural backfill, no compaction testing would be required.

Construction Monitoring Program – We recommend that a pre-construction survey of adjacent buildings be performed to document existing conditions and to provide a baseline to evaluate the impact of construction on the adjacent buildings. We also recommend that the adjacent buildings be monitored for vibration and movement during demolition, excavation and underpinning.

GEOTECHNICAL REVIEW OF FOUNDATION DESIGN & CONSTRUCTION

Recommendations for foundation design and construction in this report are based on the information obtained from the borings and the test pits. However, conditions on the site may vary between discrete boring and test pit locations and observed at the time of our subsurface exploration. The nature and extent of variations between borings and test pits may not become evident until exposed in construction. Geotechnical observation of new foundation construction is recommended to provide an opportunity to observe existing foundations and soil conditions as exposed during construction, evaluate the applicability of the recommendations provided in this report to the soil and existing foundation conditions encountered, and recommend appropriate changes in design or construction procedures if conditions differ from those described herein. We recommend that all foundation construction be observed by a qualified geotechnical engineer in accordance with the requirements of the NYC Building Code, including inspection of foundation subgrades and placement of controlled fill around new structural elements.

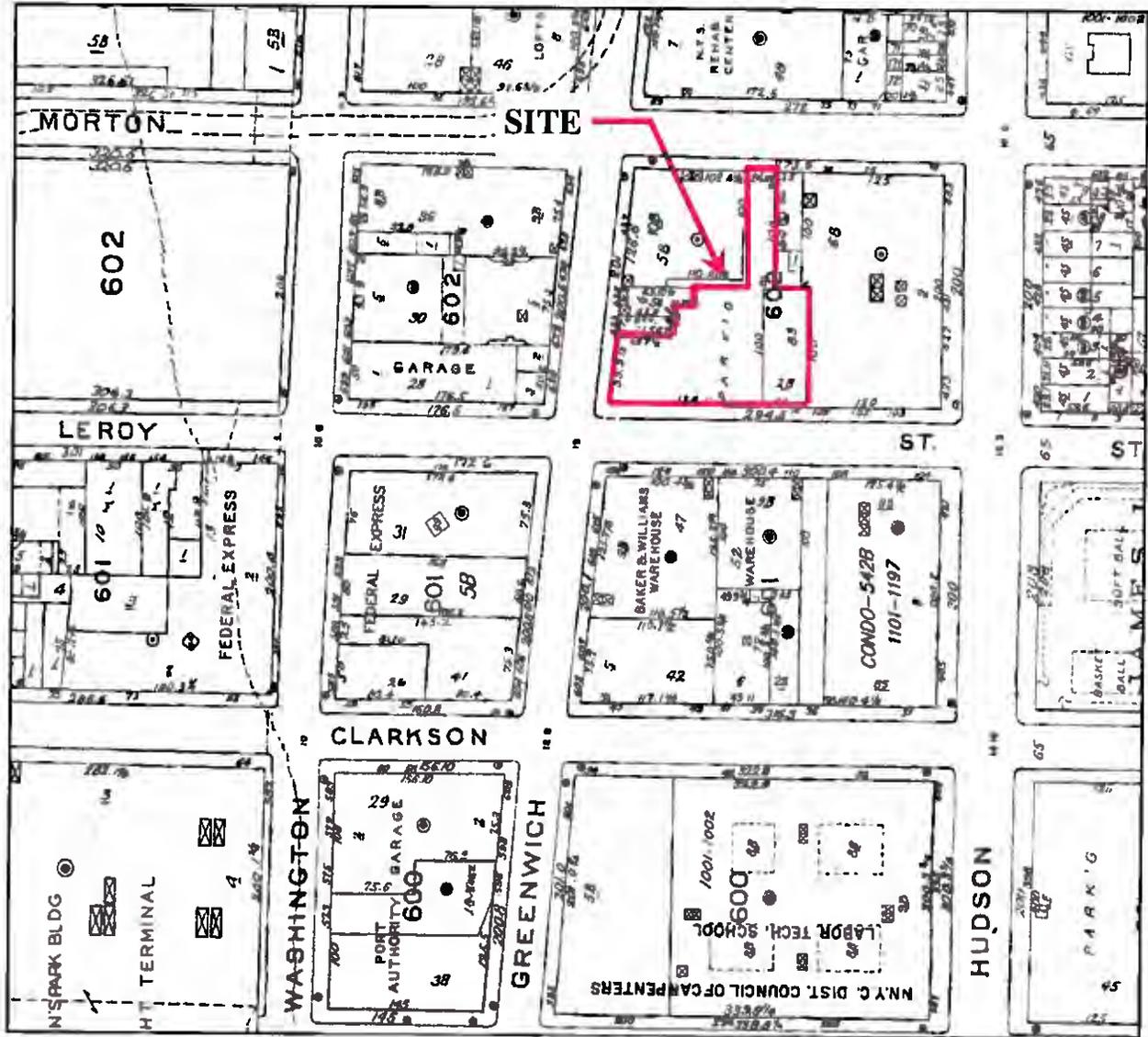
Very truly yours

MUESER RUTLEDGE CONSULTING ENGINEERS

By:  _____
Jong W. Choi, P.E.

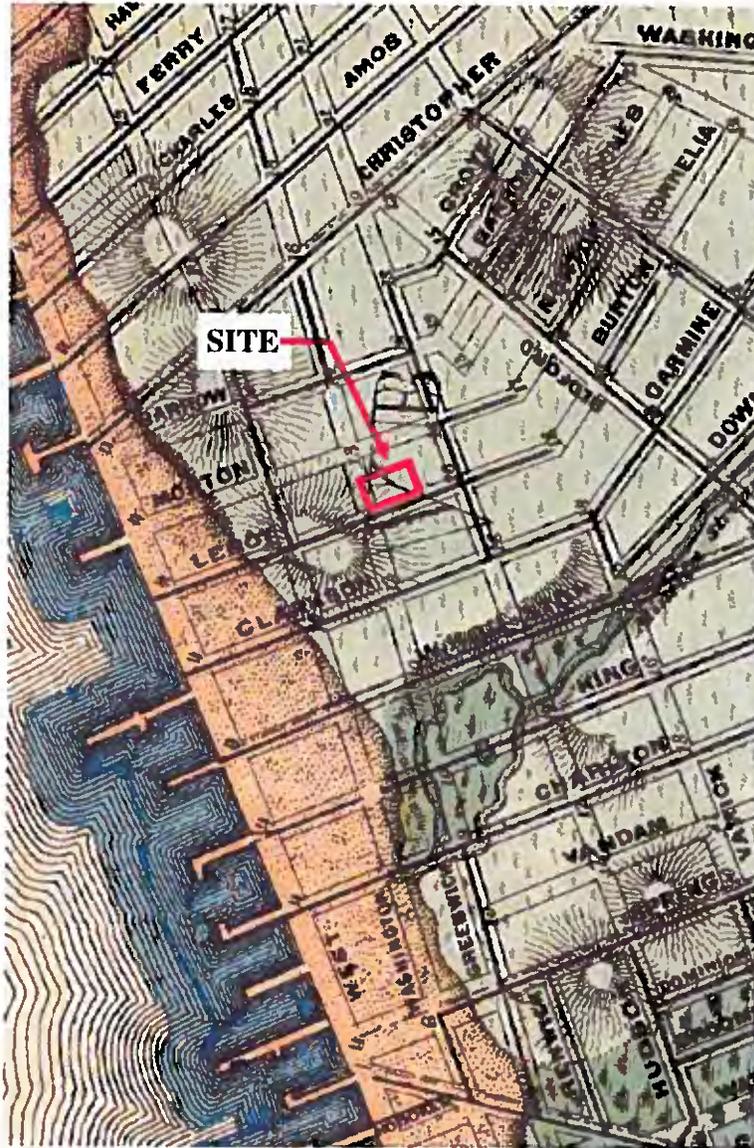
By:  _____
Walter E. Kaeck, P.E.

EXHIBITS



Source: 2002 - 2003 Manhattan Land Book

Property Markets Group, Inc.		
New York		New York
MUESER RUTLEDGE CONSULTING ENGINEERS		
14 PENN PLAZA • 225 W. 34th STREET • NEW YORK, NY 10122		
SCALE	MADE BY JWC DATE 7-30-2013	FILE NO.
NA	CHK'D BY: DATE	10758A
SITE MAP		PLATE NO.
		S - 1



Source: Viele, Egbert L., *Sanitary & Topographical Map of the City and Island of New York*. Publishers, Ferd. Mayer & Co. Lithographers, 1865.

Property Markets Group, Inc.		
New York		New York
MUESER RUTLEDGE CONSULTING ENGINEERS		
14 PENN PLAZA • 225 W. 34th STREET • NEW YORK, NY 10122		
SCALE	MADE BY: JWC DATE: 7-31-2013	FILE NO.
NA	CHK'D BY: DATE	10758A
1865 TOPOGRAPHICAL MAP		PLATE NO.
		S - 2

GENERAL NOTES:

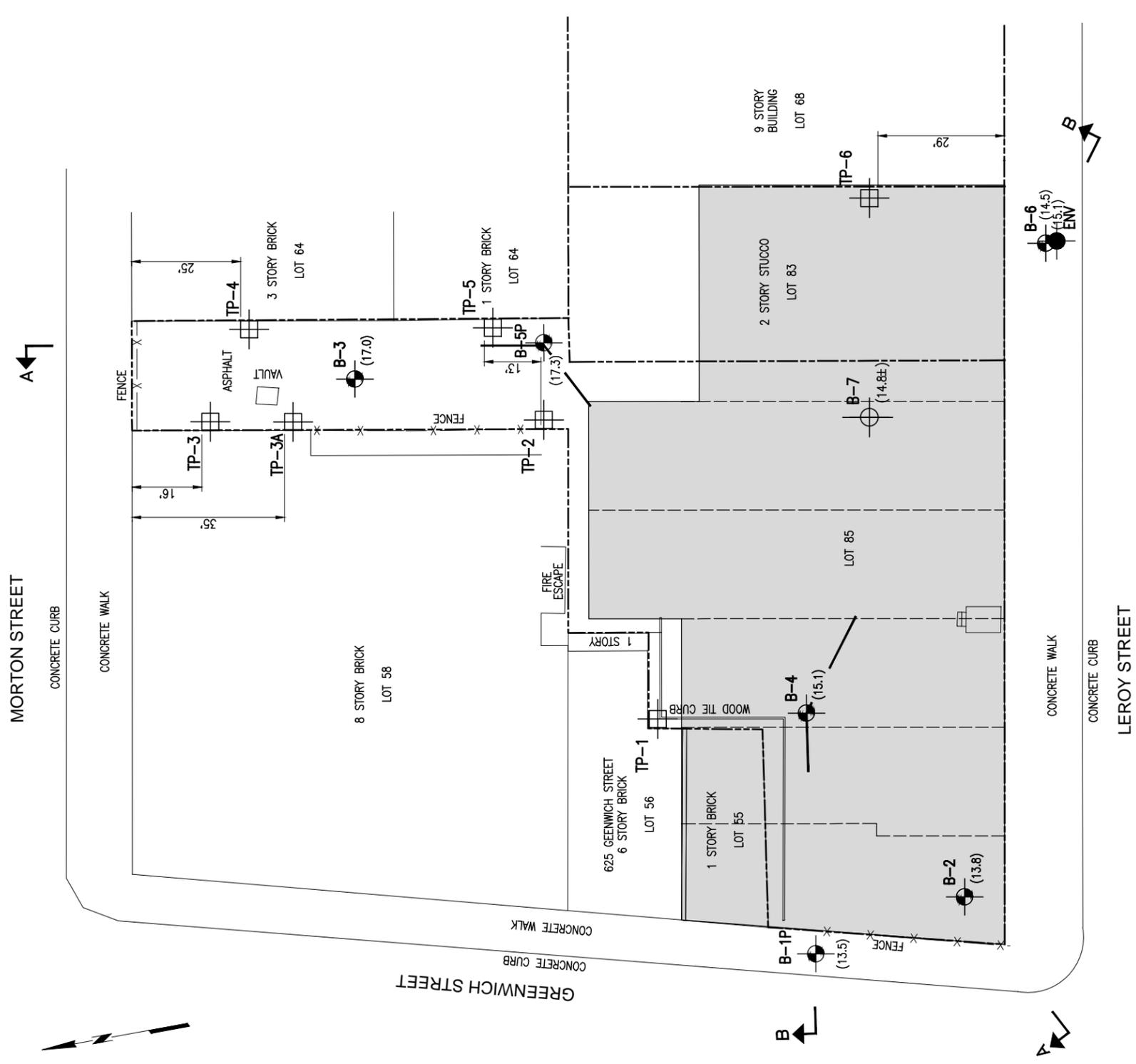
- BORINGS B-1P THROUGH B-6 WERE MADE BY AQUIFER DRILLING AND TESTING, INC. BETWEEN OCTOBER 23 AND NOVEMBER 2, 2006 UNDER THE CONTINUOUS INSPECTION OF MRCE.
- BORING B-7 WAS MADE BY WARREN GEORGE INC. ON DECEMBER 19, 2014 UNDER MRCE INSPECTION.
- ALL TEST PITS WERE PERFORMED BY J. COFFEY CONTRACTING INC. IN JULY AND AUGUST 2014 UNDER MRCE INSPECTION.
- ALL BORINGS AND TEST PITS WERE LAID OUT IN THE FIELD BY MRCE INSPECTORS BASED ON THE LOCATION PLANS PREPARED BY MRCE.
- BASE PLAN, AS-BUILT BORING LOCATIONS, AND ELEVATIONS FOR BORINGS B-1P THROUGH B-6 WERE SURVEYED BY CHRIMAG TECHNOLOGY SERVICES.
- AS-BUILT LOCATIONS FOR BORING B-7 AND TEST PITS WERE MEASURED BY MRCE ENGINEER.
- ALL ELEVATIONS REFER TO BOROUGH PRESIDENT OF MANHATTAN DATUM IN WHICH ELEV. 0.0 IS 2.75 FEET ABOVE M.S.L. AT SANDY HOOK (US&GS DATUM).
- SOIL AND ROCK CLASSIFICATIONS ARE SHOWN ON BORING LOGS AND GEOLOGIC SECTIONS A-A AND B-B ILLUSTRATED ON DRAWINGS NOS. GS-1 AND GS-2.
- FOR GENERAL STRATA DESCRIPTIONS SEE DRAWINGS NOS. GS-1 AND GS-2.
- SEE DRAWING NO. GS-R FOR BORING LEGEND AND SUMMARY OF UNIFIED SOIL CLASSIFICATION SYSTEM. SEE DRAWING NO. RC-1 FOR ROCK CORE CLASSIFICATION CRITERIA.
- BORING LOGS ARE ATTACHED IN APPENDIX A.

LEGEND

- B-1P** - BORING DRILLED IN 2006 UNDER MRCE INSPECTION
P - PIEZOMETER
- ENW** - GROUND WATER OBSERVATION WELL INSTALLED DURING AN ENVIRONMENTAL INVESTIGATION BY OTHERS
- B-7** - BORING DRILLED IN DECEMBER 2014 UNDER MRCE INSPECTION
- TP-1** - TEST PIT PERFORMED IN JULY AND AUGUST 2014 UNDER MRCE INSPECTION.
- - - - - PROPERTY LINE
- APPROXIMATE PROPOSED BUILDING FOOTPRINT

2	08-24-15	J.W.C.	NEW BUILDING DESIGN
1	1-15-15	J.W.C.	BORING AND TEST PITS WERE ADDED
REV.	DATE	BY	DESCRIPTION

NEW YORK		111 LEROY STREET	
NEW YORK		NEW YORK	
PROPERTY MARKETS GROUP, INC.		NEW YORK	
MUESER RUTLEDGE CONSULTING ENGINEERS			
14 PENN PLAZA - 225 W. 34TH STREET, NY, NY 10122			
SCALE	MADE BY: E.C.	DATE: 08-05-2013	FILE NUMBER
GRAPHIC	CHKD BY: J.W.C.	DATE: 08-05-2013	10758B
AS-BUILT BORING AND TEST PIT LOCATION PLAN			DRAWING NUMBER
			BP-1

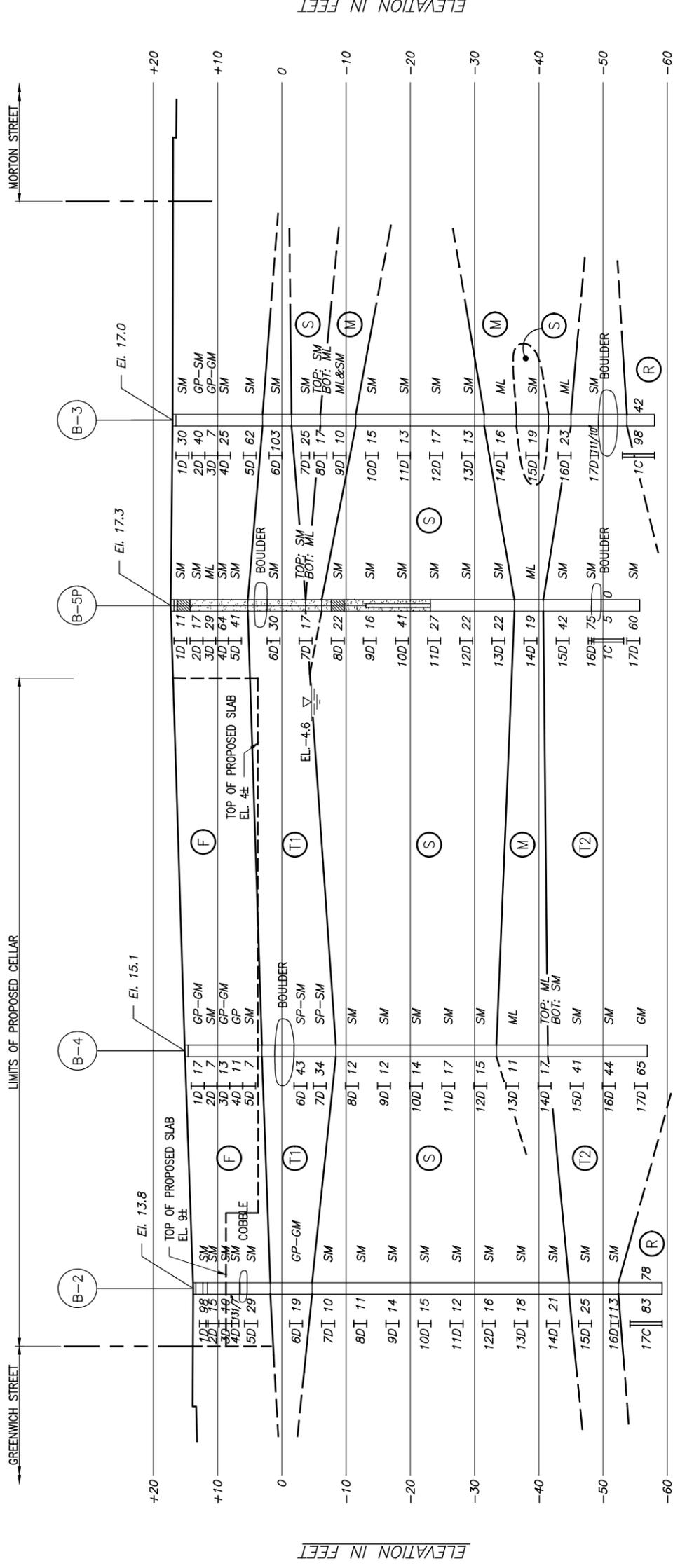


NOTES:

- FOR BORING AND SECTION LOCATIONS AND GENERAL NOTES, SEE DRAWING NO. BP-1.
- BORINGS ILLUSTRATED ON GEOLOGIC SECTIONS ARE IN SOME CASES PROJECTED TO THE SECTION AND/OR OFFSET FOR CLARITY. STRATIFICATIONS SHOWN ON GEOLOGIC SECTIONS ARE NECESSARY INTERPOLATIONS BETWEEN AND BEYOND BORINGS AND MAY NOT REPRESENT ACTUAL SUBSURFACE CONDITIONS.
- FOR COMPLETE SAMPLE DESCRIPTIONS, SEE BORING LOGS IN APPENDIX A.

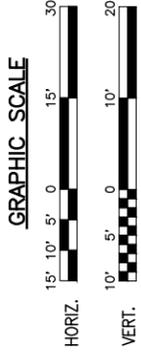
GENERAL STRATA DESCRIPTION

- (F) STRATUM F - FILL (NYC CLASS 7):
VERY COMPACT TO LOOSE BROWN AND RED BROWN FINE TO COARSE SAND, SOME SILT AND GRAVEL, TRACE ASPHALT, CINDER AND BRICK FRAGMENTS.
- (T1) STRATUM T1 - GLACIAL TILL (NYC CLASSES 3A AND 3B):
MEDIUM COMPACT TO COMPACT BROWN AND RED BROWN FINE TO COARSE SAND, SOME TO TRACE SILT AND GRAVEL VARYING TO MEDIUM COMPACT BROWN GRAVELLY FINE TO COARSE SAND, SOME SILT WITH OCCASIONAL BOULDERS.
- (S) STRATUM S - FINE SAND (NYC CLASS 3B):
MEDIUM COMPACT BROWN AND RED BROWN FINE SAND, SOME SILT, TRACE MICA.
- (M) STRATUM M - SILT (NYC CLASS 5):
MEDIUM COMPACT TO LOOSE RED BROWN FINE SANDY SILT, TRACE COARSE SAND AND MICA.
- (T2) STRATUM T2 - GLACIAL TILL (NYC CLASSES 3A & 3B):
VERY COMPACT TO MEDIUM COMPACT BROWN AND RED BROWN FINE TO COARSE SAND VARYING TO VERY COMPACT TO MEDIUM COMPACT RED BROWN FINE TO COARSE SANDY GRAVEL, SOME SILT.
- (R) STRATUM R - BEDROCK (NYC CLASSES 1B AND 1C):
MEDIUM HARD SLIGHTLY WEATHERED TO UNWEATHERED, GRAY MICA SCHIST TO GNEISSIC SCHIST CLOSELY JOINTED TO MODERATELY JOINTED, SLIGHTLY WEATHERED TO UNWEATHERED JOINTS VARYING TO MEDIUM HARD UNWEATHERED WHITE GRAY PINK PEGMATITE, JOINTED, UNWEATHERED JOINTS TO IRON STAINED JOINTS.



GEOLOGIC SECTION A-A

DATE	ELEV.
11-02-2006	-2.7
11-03-2006	-3.0
11-13-2006	-2.9
07-16-2013	-6.2
07-30-2013	-5.9
01-15-2015	-3.5
08-31-2015	-4.6



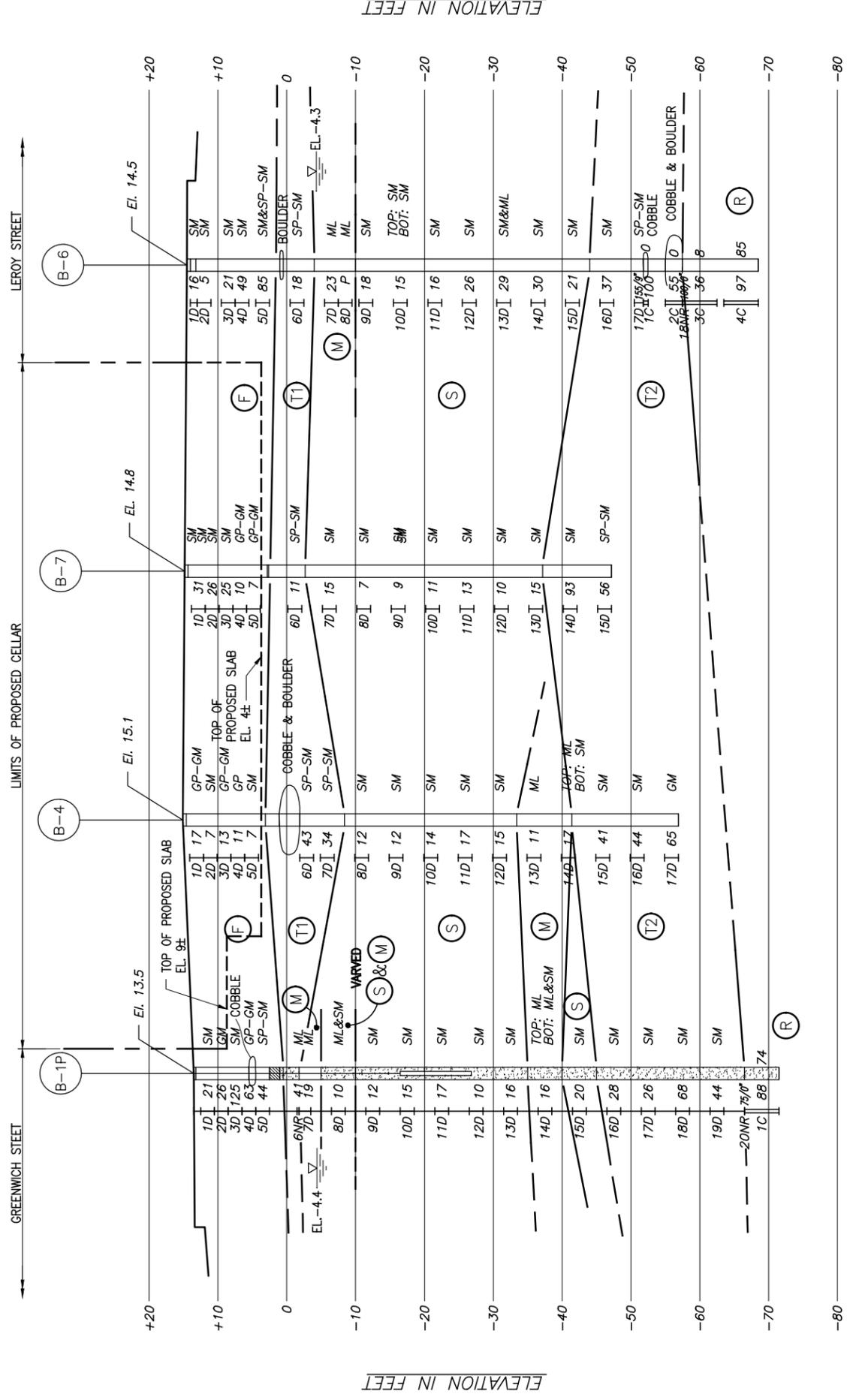
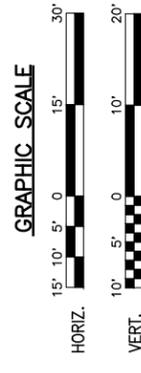
2	08-24-15	J.W.C.	NEW BUILDING DESIGN AND ADDITIONAL GW READINGS
1	1-15-15	J.W.C.	NEW WATER INFORMATION ADDED
REV.	DATE	BY	DESCRIPTION
111 LEROY STREET			
NEW YORK		NEW YORK	
PROPERTY MARKETS GROUP, INC.			
NEW YORK		NEW YORK	
MUESER RUTLEDGE CONSULTING ENGINEERS			
14 PENN PLAZA - 225 W. 34TH STREET, NY, NY 10122			
SCALE	MADE BY: E.C.	DATE: 08-05-2013	FILE NUMBER
GRAPHIC	CHKD BY: J.W.C.	DATE: 08-05-2013	10758B
GEOLOGIC SECTION A-A			DRAWING NUMBER
			GS-1

NOTES:

- FOR BORING AND SECTION LOCATIONS AND GENERAL NOTES, SEE DRAWING NO. BP-1.
- BORINGS ILLUSTRATED ON GEOLOGIC SECTIONS ARE IN SOME CASES PROJECTED TO THE SECTION AND/OR OFFSET FOR CLARITY. STRATIFICATIONS SHOWN ON GEOLOGIC SECTIONS ARE NECESSARY INTERPOLATIONS BETWEEN AND BEYOND BORINGS AND MAY NOT REPRESENT ACTUAL SUBSURFACE CONDITIONS.
- FOR COMPLETE SAMPLE DESCRIPTIONS, SEE BORING LOGS IN APPENDIX A.

GENERAL STRATA DESCRIPTION

- (F) STRATUM F - FILL (NYC CLASS 7):
VERY COMPACT TO LOOSE BROWN AND RED BROWN FINE TO COARSE SAND, SOME SILT AND GRAVEL, TRACE ASPHALT, CINDER AND BRICK FRAGMENTS.
- (T1) STRATUM T1 - GLACIAL TILL (NYC CLASSES 3A AND 3B):
MEDIUM COMPACT TO COMPACT BROWN AND RED BROWN FINE TO COARSE SAND, SOME TO TRACE SILT AND GRAVEL VARYING TO MEDIUM COMPACT BROWN GRAVELLY FINE TO COARSE SAND, SOME SILT WITH OCCASIONAL BOULDERS.
- (S) STRATUM S - FINE SAND (NYC CLASS 3B):
MEDIUM COMPACT BROWN AND RED BROWN FINE SAND, SOME SILT, TRACE MICA.
- (M) STRATUM M - SILT (NYC CLASS 5):
MEDIUM COMPACT TO LOOSE RED BROWN FINE SANDY SILT, TRACE COARSE SAND AND MICA.
- (T2) STRATUM T2 - GLACIAL TILL (NYC CLASSES 3A & 3B):
VERY COMPACT TO MEDIUM COMPACT BROWN AND RED BROWN FINE TO COARSE SAND VARYING TO VERY COMPACT TO MEDIUM COMPACT RED BROWN FINE TO COARSE SANDY GRAVEL, SOME SILT.
- (R) STRATUM R - BEDROCK (NYC CLASSES 1B AND 1C):
MEDIUM HARD SLIGHTLY WEATHERED TO UNWEATHERED, GRAY MICA SCHIST TO GNEISSIC SCHIST CLOSELY JOINTED TO MODERATELY JOINTED, SLIGHTLY WEATHERED TO UNWEATHERED JOINTS VARYING TO MEDIUM HARD UNWEATHERED WHITE GRAY PINK PEGMATITE, JOINTED, UNWEATHERED JOINTS TO IRON STAINED JOINTS.



GEOLOGIC SECTION B-B

B-1P GROUND WATER READINGS

DATE	ELEV.
10-30-2006	-3.0
10-31-2006	-3.0
11-01-2006	-3.0
11-02-2006	-3.0
11-03-2006	-3.0
11-13-2006	-2.9
07-30-2013	-5.8
01-15-2015	-3.3
08-31-2015	-4.4

ENVIRONMENTAL WELL GROUND WATER READINGS

DATE	ELEV.
10-23-2006	-3.1
10-26-2006	-3.2
10-27-2006	-3.2
11-03-2006	-3.1
11-13-2006	-3.0
07-30-2013	-5.4
01-15-2015	-3.7
08-31-2015	-4.3

REV.	DATE	BY	DESCRIPTION
2	08-24-15	J.W.C.	NEW BUILDING DESIGN AND ADDITIONAL GW READINGS
1	1-15-15	J.W.C.	BORING B-7 AND NEW WATER INFORMATION ADDED

NEW YORK
111 LEROY STREET
 NEW YORK
PROPERTY MARKETS GROUP, INC.
 NEW YORK
 NEW YORK

MUESER RUTLEDGE CONSULTING ENGINEERS
 14 PENN PLAZA - 225 W. 34TH STREET, NY, NY 10122

SCALE	MADE BY: E.C.	DATE: 08-05-2013	FILE NUMBER
GRAPHIC	CHKD BY: J.W.C.	DATE: 08-05-2013	10758B

GEOLOGIC SECTION B-B
GS-2

UNIFIED SOIL CLASSIFICATION (INCLUDING IDENTIFICATION AND DESCRIPTION)

MAJOR DIVISIONS	GROUP SYMBOLS	TYPICAL NAMES	FIELD IDENTIFICATION PROCEDURES (EXCLUDING PARTICLES LARGER THAN 3 IN. AND BASING FRACTIONS ON ESTIMATED WEIGHTS)
GRAVELS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE ABOUT THE SMALLEST PARTICLE VISIBLE TO THE NAKED EYE	3	4	5
		4	5
SANDS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 4 SIEVE SIZE (FOR VISUAL CLASSIFICATION, THE 1/4 -IN. SIZE MAY BE USED AS EQUIVALENT TO THE NO. 4 SIEVE SIZE)	GW	GW	WIDE RANGE IN GRAIN SIZES AND SUBSTANTIAL AMOUNTS OF ALL INTERMEDIATE PARTICLE SIZES.
		GP	PREDOMINANTLY ONE SIZE OR A RANGE OF SIZES WITH SOME INTERMEDIATE SIZES MISSING.
FINE-GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	GM	GM	NONPLASTIC FINES OR FINES WITH LOW PLASTICITY (FOR IDENTIFICATION PROCEDURES SEE ML BELOW)
		GC	PLASTIC FINES (FOR IDENTIFICATION PROCEDURES SEE CL BELOW)
CLEAN SANDS (LITTLE OR NO FINES)	SW	SW	WIDE RANGE IN GRAIN SIZES AND SUBSTANTIAL AMOUNTS OF ALL INTERMEDIATE PARTICLE SIZES.
		SP	PREDOMINANTLY ONE SIZE OR A RANGE OF SIZES WITH SOME INTERMEDIATE SIZES MISSING.
SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	SM	SM	NONPLASTIC FINES OR FINES WITH LOW PLASTICITY (FOR IDENTIFICATION PROCEDURES SEE ML BELOW)
		SC	PLASTIC FINES (FOR IDENTIFICATION PROCEDURES SEE CL BELOW)
SILTS AND CLAYS LIQUID LIMIT IS LESS THAN 50	ML	ML	IDENTIFICATION PROCEDURES ON FRACTION SMALLER THAN NO. 40 SIEVE SIZE
		CL	DRY STRENGTH CHARACTERISTICS) DILATANCY (REACTION TO SHAKING) TOUGHNESS (CONSISTENCY NEAR PL)
SILTS AND CLAYS LIQUID LIMIT IS GREATER THAN 50	MH	MH	INORGANIC SILTS, SANDY SILTS, ROCK FLOUR, OR CLAYEY SILTS WITH SLIGHT PLASTICITY.
		CH	INORGANIC CLAYS, OF LOW TO MEDIUM PLASTICITY, GRAMELLEYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS.
HIGHLY ORGANIC SOILS	OL	OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY.
		MH	INORGANIC SILTS, MUCKEIOUS OR DATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS.
HIGHLY ORGANIC SOILS	OH	OH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
		PT	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS.
		PT	PEAT AND OTHER HIGHLY ORGANIC SOILS.

BOUNDARY CLASSIFICATIONS: SOILS POSSESSING CHARACTERISTICS OF TWO GROUPS ARE DESIGNATED BY COMBINATIONS OF GROUP SYMBOLS.
I.E.: SP-SG POORLY GRADED SAND WITH CLAY BINDER.

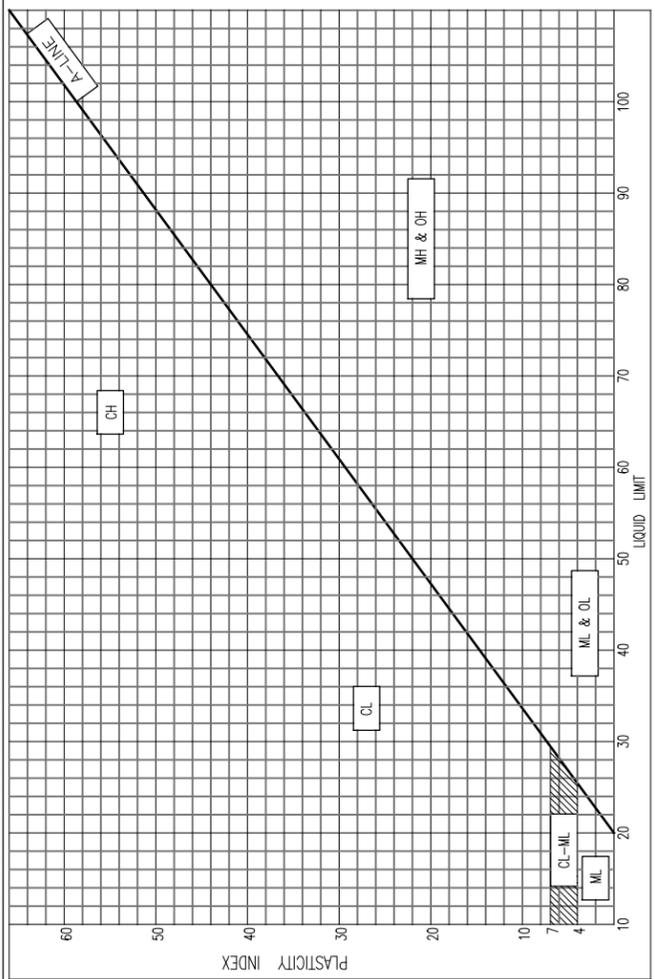
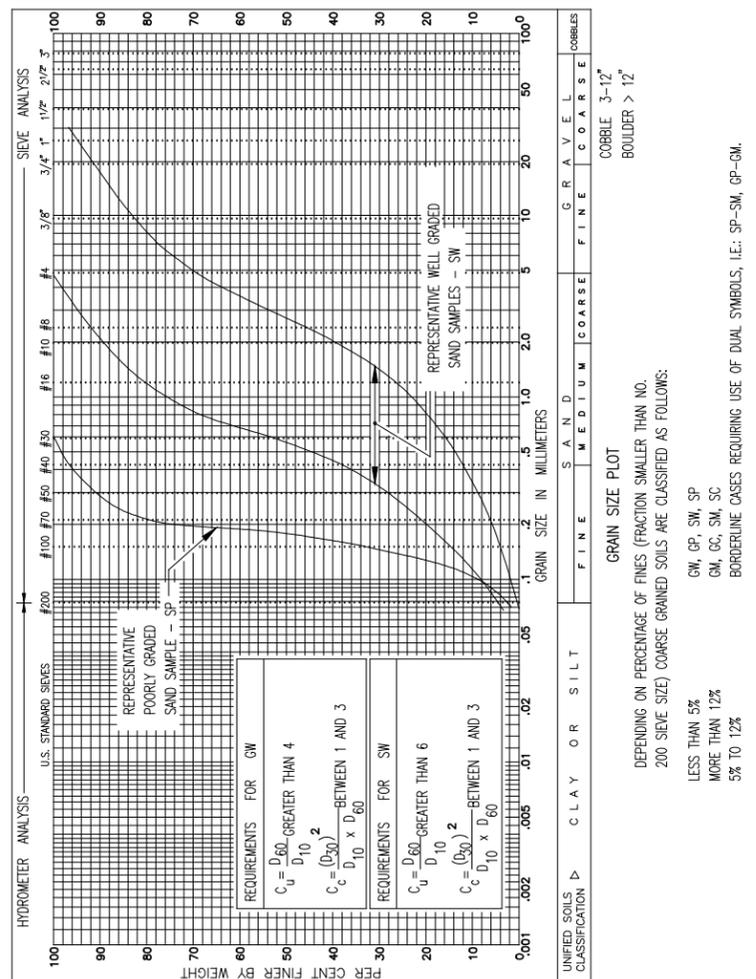
DEGREE OF COMPACTION	BLOWS* PER FOOT	CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH (TSF)	IDENTIFICATION CHARACTERISTICS	DESCRIPTION OF CONSTITUENT PERCENTAGES AS USED IN SOIL SAMPLE CLASSIFICATIONS
LOOSE	0 TO 10	SOFT	LESS THAN 0.5	EASILY REMOVED WITH SLIGHT FINGER PRESSURE	1% TO 12% - "TRACE"
MEDIUM COMPACT	11 TO 29	MEDIUM	0.5 TO 1.0	REQUIRES SUBSTANTIAL PRESSURE FOR REMOLDING WITH FINGERS	13% TO 30% - "SOME"
COMPACT	30 TO 50	STIFF	1.0 TO 4.0	CANNOT BE REMOVED WITH FINGERS	31% TO 49% - ADJECTIVE FORM OF SOIL GROUP (EG. SANDY)
VERY COMPACT	GREATER THAN 50	HARD	GREATER THAN 4.0		EQUAL AMOUNT - "AND" (EG. SAND AND GRAVEL)

* STANDARD PENETRATION RESISTANCE USING 140 LB. HAMMER FREE FALLING 30 INCHES TO DRIVE A 2 INCH O.D. SPLIT-SPOON SAMPLER.

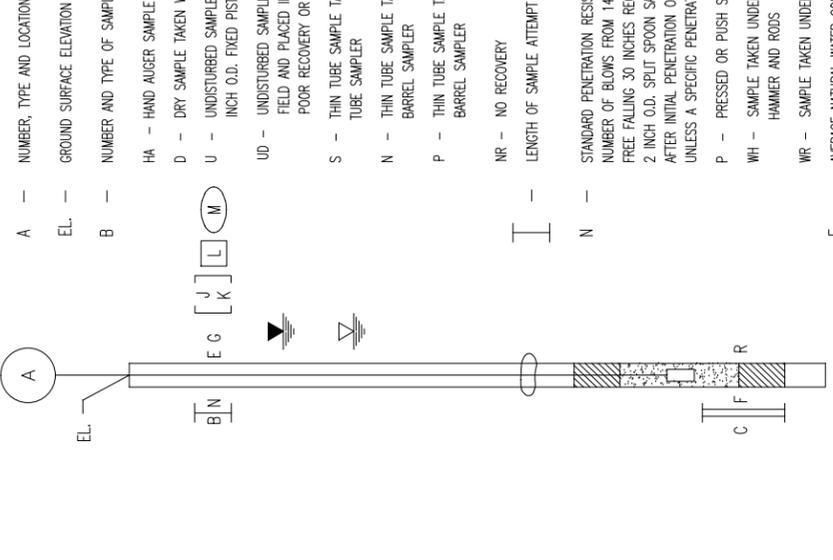
TERMINOLOGY USED IN MRCE SOIL DESCRIPTIONS

DEGREE OF COMPACTION	BLOWS* PER FOOT	CONSISTENCY	UNCONFINED COMPRESSIVE STRENGTH (TSF)	IDENTIFICATION CHARACTERISTICS	DESCRIPTION OF CONSTITUENT PERCENTAGES AS USED IN SOIL SAMPLE CLASSIFICATIONS
LOOSE	0 TO 10	SOFT	LESS THAN 0.5	EASILY REMOVED WITH SLIGHT FINGER PRESSURE	1% TO 12% - "TRACE"
MEDIUM COMPACT	11 TO 29	MEDIUM	0.5 TO 1.0	REQUIRES SUBSTANTIAL PRESSURE FOR REMOLDING WITH FINGERS	13% TO 30% - "SOME"
COMPACT	30 TO 50	STIFF	1.0 TO 4.0	CANNOT BE REMOVED WITH FINGERS	31% TO 49% - ADJECTIVE FORM OF SOIL GROUP (EG. SANDY)
VERY COMPACT	GREATER THAN 50	HARD	GREATER THAN 4.0		EQUAL AMOUNT - "AND" (EG. SAND AND GRAVEL)

* STANDARD PENETRATION RESISTANCE USING 140 LB. HAMMER FREE FALLING 30 INCHES TO DRIVE A 2 INCH O.D. SPLIT-SPOON SAMPLER.



BORING LEGEND



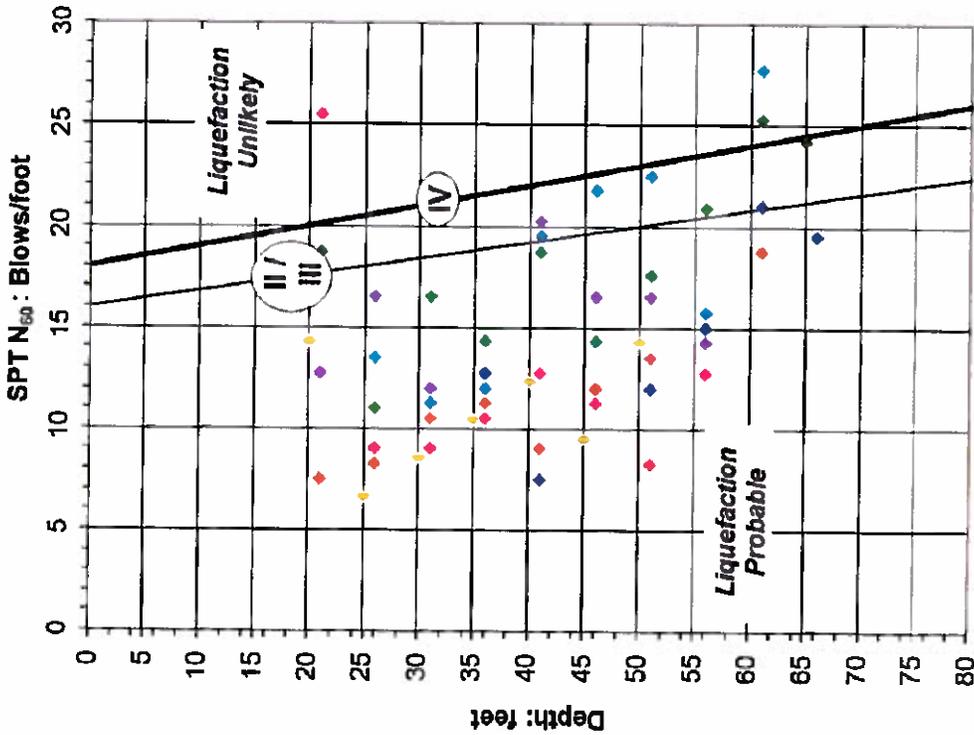
REVISED 10-25-2012

MUESER RUTLEDGE CONSULTING ENGINEERS
225 WEST 34th STREET - 14 PENN PLAZA
NEW YORK, NY 10122

GEOTECHNICAL REFERENCE STANDARDS
GS-R
DRAWING NO.

Table No. 1 - Soil Design Parameters

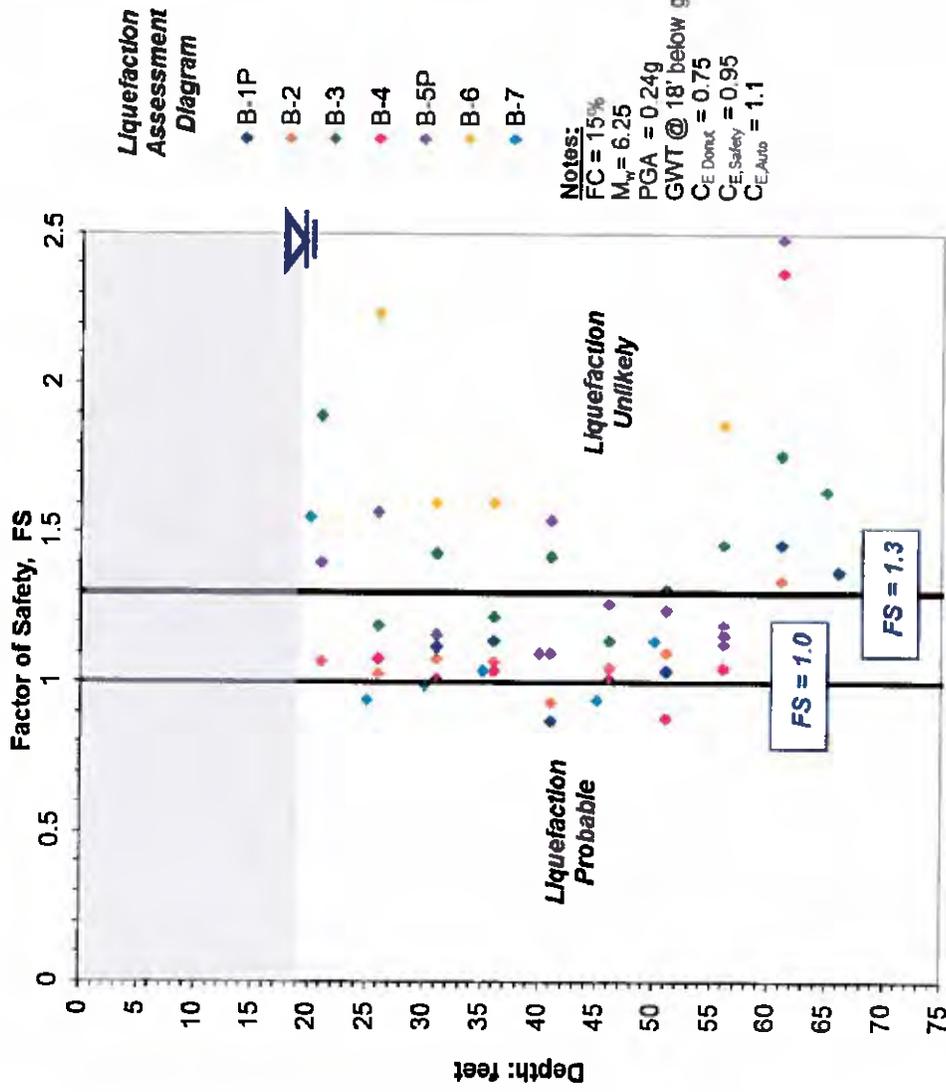
Description	Parameter (for Stratum T1 or local select fill Except for Items 3, 5 & 6)
1. Allowable bearing capacity for Mat foundation and individual footing	3 tsf
2. Unit weight of soil ①. Moist unit weight ②. Submerged unit weight	120 pcf 60 pcf
3. Friction angle	32 degrees (applicable to Strata F, T1 and S)
4. Coefficient of friction between concrete and soil	0.4
5. Earth pressure coefficients ①. Coefficient of active earth pressure ②. Coefficient of at-rest earth pressure	0.3 (applicable to Stratum F) 0.5 (applicable to Stratum F)
6. Equivalent fluid pressures ①. Flexible walls above water table ②. Rigid walls above water table ③. Flexible walls below water table ④. Rigid walls below water table	36 psf/ft (applicable to Stratum F) 60 psf/ft (applicable to Stratum F) 80 psf/ft (applicable to Stratum F) 92 psf/ft (applicable to Stratum F)
7. Vertical subgrade modulus for mat foundation	40 tons per cubic foot for the interior of the mat. 80 tons per cubic foot for the 10-foot strip along the property line.
8. Seismic Site Class	D
9. Design groundwater level	Elev. +2



Notes:

1. Liquefaction screening diagram is developed based on 2014 NYC Building Code guidelines
2. SPT N_{60} values are calculated from field SPT values based on the type of hammer used.
3. SPT N_{60} values falling to the right of the screening lines indicate liquefaction is unlikely during the Code seismic design event.

New York		111 Leroy Street		New York	
MUESER RUTLEDGE CONSULTING ENGINEERS					
14 PENN PLAZA – 225 W 34 TH STREET, NEW YORK NY 10122					
SCALE	MADE BY: MP	DATE: 01-16-15	FILE No.	10758A	
N/A	CHKD BY: MM	DATE: 01-21-15	LIQUEFACTION SCREENING DIAGRAM		
2014 NYC BUILDING CODE			FIGURE No. 1		



Notes:

- Factor of Safety (FS) against liquefaction of the soil is estimated based on corrected SPT N values and Fines Content (FC) of 15 % under Maximum Considered Earthquake (MCE).
- SPT N values are corrected for the hammer efficiency ratio (C_E), rod length (C_R), borehole diameter (C_B), sampling method (C_S), overburden (C_N), and fines content (FC)
- FS values falling to the right of the FS = 1.3 screening line indicate that liquefaction is unlikely during the Code seismic design event.
- According to the liquefaction assessment diagram liquefaction at the site is considered to be unlikely.

New York		111 Leroy Street		New York	
MUESER RUTLEDGE CONSULTING ENGINEERS					
14 PENN PLAZA – 225 W 34 TH STREET, NEW YORK NY 10122					
SCALE	MADE BY: MP	DATE: 01-20-15	FILE No.		
N/A	CHKD BY: MM	DATE: 01-21-15	10758A		
SITE-SPECIFIC LIQUEFACTION ASSESSMENT			FIGURE No. 2		

APPENDIX A
(MRCE Boring Logs)

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

PROJECT: 111 LEROY STREET
 LOCATION: NEW YORK, NEW YORK

BORING NO. B-1P
 SHEET 2 OF 6
 FILE NO. 10758
 SURFACE ELEV. 13.5
 RES. ENGR. CAROL HAWK

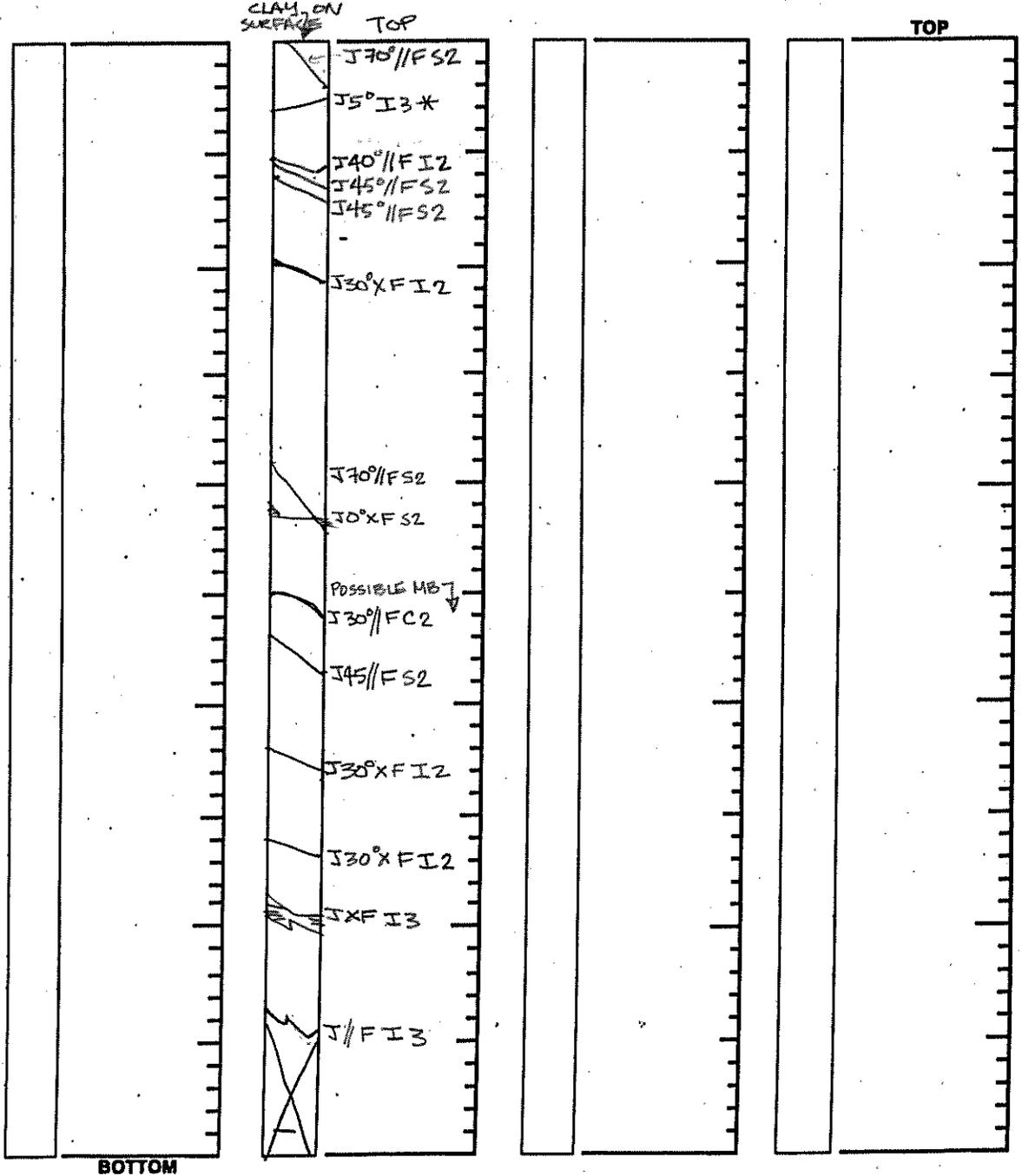
DAILY PROGRESS	SAMPLE			SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
	NO.	DEPTH	BLOWS/6"					
Cont'd	14D	50.0	7-7	Top 11": Brown silt, some fine sand, trace mica (ML) Bot 8": Red brown fine sandy silt varved with fine to medium sand, some silt, trace mica (ML&SM)	M		DRILLED	
10-26-06		52.0	9-16				AHEAD	
Thursday				Interlayered brown fine sand, some silt, trace mica and red brown silty fine sand, trace mica (SM)	S		3"	
Partly							53.5	
Sunny	15D	55.0	5-8				55	
60°F		57.0	12-14				58.5	
				Red brown to brown fine to coarse sand, some silt, trace gravel (SM)			60	
	16D	60.0	13-16				65	
		62.0	12-16	Brown fine to coarse sand, some gravel, silt (SM)				
							70	
	17D	65.0	13-12	Do 17D, some gray and dark brown rock fragments in tip (SM)	T2			REC=6"
		67.0	14-21				75	
				Red brown gravelly fine to coarse sand, some silt, trace pocket white fine to coarse sand, trace pocket yellow fine to medium sand (SM)				REC=6"
	18D	70.0	18-26				80	
		72.0	42-37	No recovery				Rig chatter at 73'.
							85	
	19D	75.0	15-23	Red brown gravelly fine to coarse sand, some silt, trace pocket white fine to coarse sand, trace pocket yellow fine to medium sand (SM)				REC=6"
		77.0	21-20				90	
14:15				Medium hard slightly weathered to unweathered, gray mica schist to gneissic schist closely jointed to moderately jointed, slightly weathered to unweathered joints, occasional clay in joints	R			*Coring time in minutes per foot. Losing mud slowly from 80' to 85'. End of Boring at 85'.
7:10	20NR	80.0	75/0"				95	
10-27-06								
Friday	1C	80.0	REC=88%				100	
Clear		85.0	RQD=74%					
9:45								

MUESER RUTLEDGE CONSULTING ENGINEERS
ROCK CORE SKETCH

BORING NO. B-1P
 SHEET 3 OF 6
 FILE NO. 10750
 SURFACE ELEV. 13.5
 RES. ENGR. CL HAWK

PROJECT III LEROY ST
 LOCATION NY NY

Run No.	REC / RQD						
		1C	88 / 74				



ROCK CORE SKETCH LEGEND

JOINTING

- J - Joint
- MB - Mechanical Break
- * - Angle w/ Horizontal
- // - Parallel
- X - Crossing
- F - Foliation
- S - Stratification
- U - Unfoliated or Unstratified

SURFACE

- C - Curved
- I - Irregular
- S - Straight

CONDITION

- 1 - Slick
- 2 - Smooth
- 3 - Rough

SKETCH SYMBOLS

- Joint
- Healed Joint
- Broken
- Part of Core Not Recovered
- Cavities or Vugs in Core
- Clay
- Sand
- Empty Space

SCALE: 1 division = 0.1 feet

NOTES * JT AT QUARTZ INCL; CL IN JT.

B-1P.

MUESER RUTLEDGE CONSULTING ENGINEERS

PIEZOMETER RECORD

PROJECT III LEROY

PIEZOMETER NO. B-1P

LOCATION NY NY

PIEZOMETER LOCATION SEE BLP

DATE OF INSTALLATION 10/27/06

SEE SKETCH ON BACK

RES. ENG. CLHAWK

PIEZOMETER TYPE SLOTTED PVC

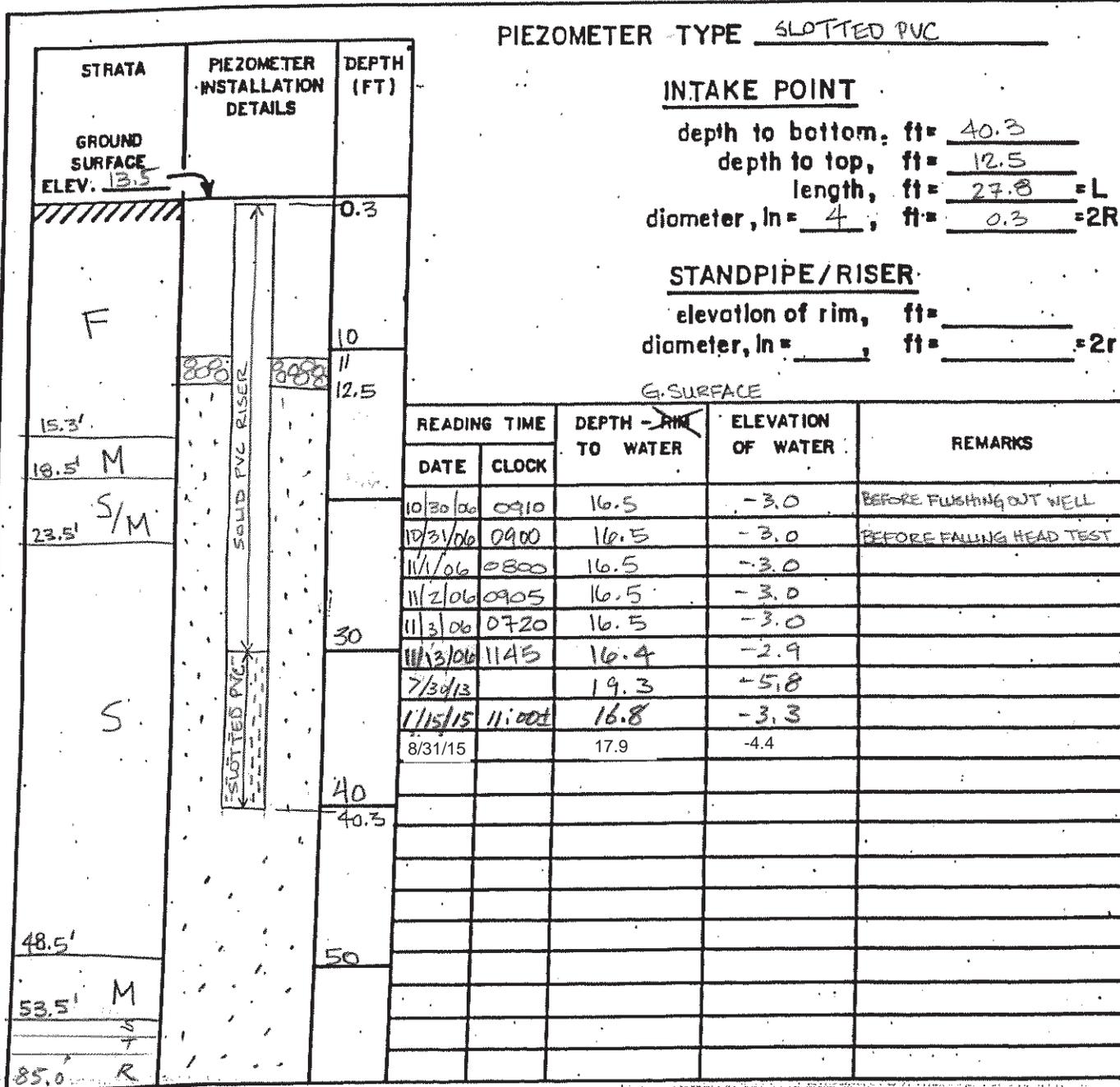
INTAKE POINT

depth to bottom: ft = 40.3
 depth to top, ft = 12.5
 length, ft = 27.8 = L
 diameter, in = 4; ft = 0.3 = 2R

STANDPIPE/RISER

elevation of rim, ft = _____
 diameter, in = _____; ft = _____ = 2r

G. SURFACE



- Sand
- Bentonite
- Gravel
- Grout

GROUND SURFACE ELEV. 13.5

PIEZOMETER NO. B-1P

MUESER RUTLEDGE CONSULTING ENGINEERS

PROJECT	<u>111 LEROY STREET</u>	BORING NO.	<u>B-1P</u>
LOCATION	<u>NEW YORK, NEW YORK</u>	SHEET	<u>6 OF 6</u>
BORING LOCATION	<u>SEE BORING LOCATION PLAN</u>	FILE NO.	<u>10758</u>
		SURFACE ELEV.	<u>13.5</u>
		DATUM	<u>BOROUGH PRESIDENT OF MANHATTAN</u>

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG	TYPE OF FEED	CASING USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
TRUCK <u>MOBILE B-61</u>	DURING CORING	DIA., IN. <u>4</u>	DEPTH, FT. FROM <u>0</u>	TO <u>15</u>
SKID	MECHANICAL	DIA., IN. <u>3</u>	DEPTH, FT. FROM <u>0</u>	TO <u>78</u>
BARGE	HYDRAULIC <input checked="" type="checkbox"/>	DIA., IN. _____	DEPTH, FT. FROM _____	TO _____
OTHER _____	OTHER	DIA., IN. _____	DEPTH, FT. FROM _____	TO _____

TYPE AND SIZE OF:	DRILLING MUD USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
D-SAMPLER <u>2" O. D. SPLIT SPOON</u>	DIAMETER OF ROTARY BIT, IN. <u>5-3/4, 3-7/8, 2-15/16</u>		
U-SAMPLER _____	TYPE OF DRILLING MUD <u>REVERT</u>		
S-SAMPLER _____			
CORE BARREL <u>HQ SINGLE TUBE*/NX DOUBLE TUBE</u>	AUGER USED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
CORE BIT <u>HQ DIAMOND*/NX DIAMOND</u>	TYPE AND DIAMETER, IN. _____		
DRILL RODS <u>NWJ</u>			
*FOR CORING BOULDERS	CASING HAMMER, LBS. <u>140</u>	AVERAGE FALL, IN. <u>30</u>	
	SAMPLER HAMMER, LBS. <u>140</u>	AVERAGE FALL, IN. <u>30</u>	

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION
					SEE PIEZOMETER RECORDS ON SHEET 4

PIEZOMETER INSTALLED YES NO **SKETCH SHOWN ON** SEE SHEET NO. 4

STANDPIPE:	TYPE	<u>SOLID PVC</u>	ID, IN.	<u>2-3/8</u>	LENGTH, FT.	<u>30</u>	TOP ELEV.	<u>13</u>
INTAKE ELEMENT:	TYPE	<u>SLOTTED PVC</u>	OD, IN.	<u>2-3/8</u>	LENGTH, FT.	<u>10</u>	TIP ELEV.	<u>-27.0</u>
FILTER:	MATERIAL	<u>SAND</u>	OD, IN.	<u>4</u>	LENGTH, FT.	<u>27.8</u>	BOT. ELEV.	<u>-71.7</u>

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	<u>80</u>	NO. OF 3" SHELBY TUBE SAMPLES	_____
3.5" DIA. U-SAMPLE BORING	LIN. FT.	_____	NO. OF 3" UNDISTURBED SAMPLES	_____
CORE DRILLING IN ROCK	LIN. FT.	<u>5</u>	OTHER:	_____

BORING CONTRACTOR AQUIFER DRILLING AND TESTING

DRILLER DHANRAJ GOPAUL **HELPERS** PREM GOPAUL

REMARKS PIEZOMETER INSTALLED UPON COMPLETION.

RESIDENT ENGINEER CAROL HAWK **DATE** 10-27-06

CLASSIFICATION CHECK: CHERYL J. MOSS **TYPING CHECK:** CAROL HAWK

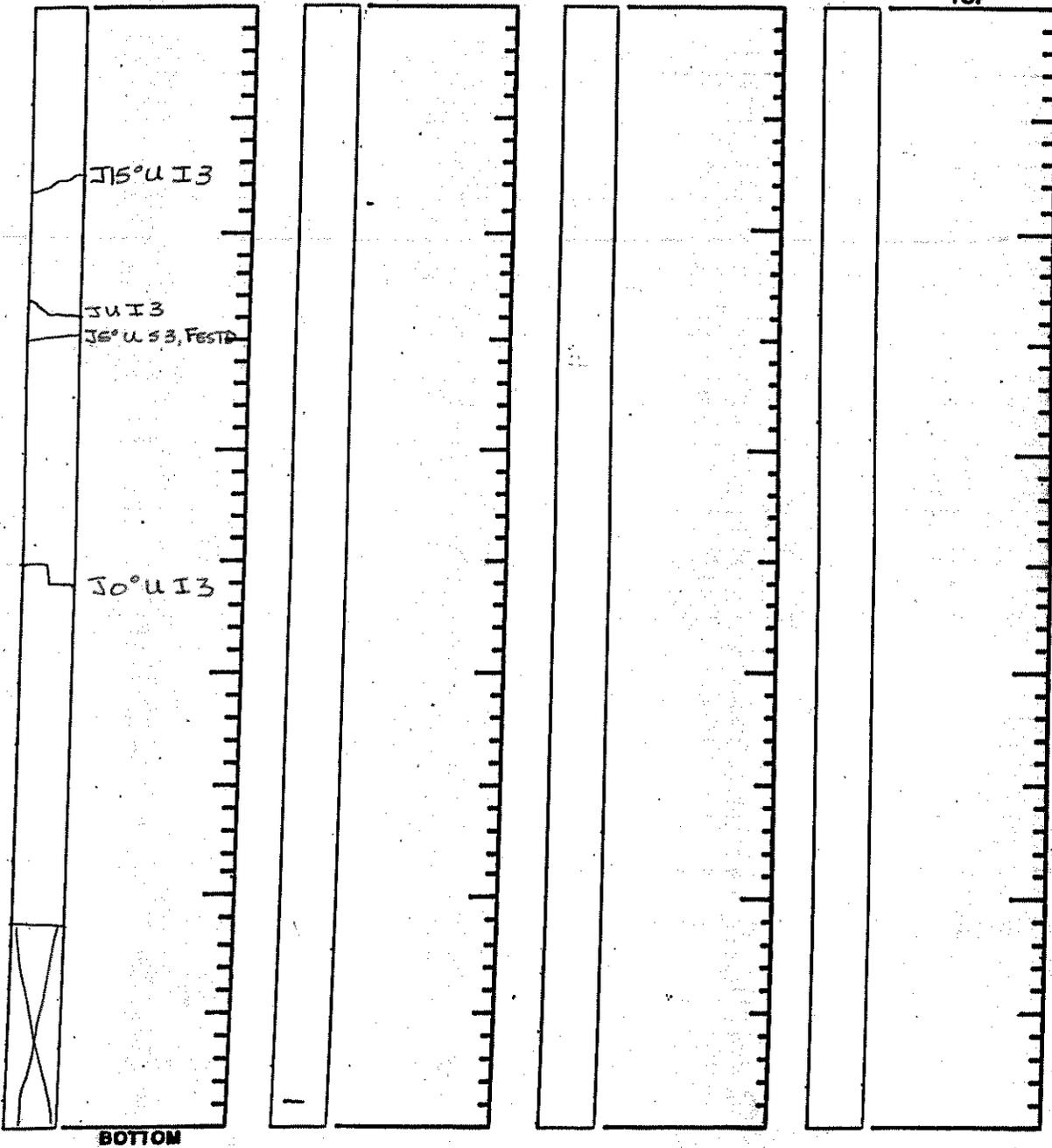
BORING NO. B-1P

**MUESER RUTLEDGE CONSULTING ENGINEERS
ROCK CORE SKETCH**

BORING NO. B-2
SHEET 3 OF 4
FILE NO. 10758
SURFACE ELEV. 13.8
RES. ENGR. CLHAWK

PROJECT 111 LEROY ST
LOCATION NY NY

Run No.	REC / ROD						
10.	83 / 78						



ROCK CORE SKETCH LEGEND

JOINTING

- J - Joint
- MB - Mechanical Break
- ∠ - Angle w/ Horizontal
- // - Parallel
- X - Crossing
- F - Foliation
- S - Stratification
- U - Untoliated or Unstratified

SURFACE

- C - Curved
- I - Irregular
- S - Straight

CONDITION

- 1 - Stick
- 2 - Smooth
- 3 - Rough

SKETCH SYMBOLS

- Joint
- Healed Joint
- Broken
- Part of Core Not Recovered
- Cavities or Vugs in Core
- Clay
- Sand
- Empty Space

NOTES _____

MUESER RUTLEDGE CONSULTING ENGINEERS

PROJECT	<u>111 LEROY STREET</u>	BORING NO.	<u>B-2</u>
LOCATION	<u>NEW YORK, NEW YORK</u>	SHEET	<u>4 OF 4</u>
BORING LOCATION	<u>SEE BORING LOCATION PLAN</u>	FILE NO.	<u>10758</u>
		SURFACE ELEV.	<u>13.8</u>
		DATUM	<u>BOROUGH PRESIDENT OF MANHATTAN</u>

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG	TYPE OF FEED	CASING USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
TRUCK <u>MOBILE B-61</u>	DURING CORING	DIA., IN. <u>4</u>	DEPTH, FT. FROM <u>0</u>	TO <u>19</u>
SKID	MECHANICAL	DIA., IN. <u>3</u>	DEPTH, FT. FROM <u>0</u>	TO <u>61</u>
BARGE	HYDRAULIC <u>X</u>	DIA., IN. _____	DEPTH, FT. FROM _____	TO _____
OTHER _____	OTHER _____	DIA., IN. _____	DEPTH, FT. FROM _____	TO _____

TYPE AND SIZE OF:	DRILLING MUD USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
D-SAMPLER <u>2" O. D. SPLIT SPOON</u>	DIAMETER OF ROTARY BIT, IN. <u>3-7/8</u>		
U-SAMPLER _____	TYPE OF DRILLING MUD <u>QUIK GEL</u>		
S-SAMPLER _____			
CORE BARREL <u>HQ SINGLE*/NX DOUBLE TUBE</u>	AUGER USED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
CORE BIT <u>HQ DIAMOND*/NX DIAMOND</u>	TYPE AND DIAMETER, IN. _____		
DRILL RODS <u>NWJ</u>			
*FOR CORING BOULDERS	CASING HAMMER, LBS. _____	AVERAGE FALL, IN. _____	
	SAMPLER HAMMER, LBS. <u>140</u>	AVERAGE FALL, IN. <u>30</u>	

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION
					NONE MADE - BORING GROUTED

PIEZOMETER INSTALLED YES NO **SKETCH SHOWN ON** _____

STANDPIPE:	TYPE	_____	ID, IN.	_____	LENGTH, FT.	_____	TOP ELEV.	_____
INTAKE ELEMENT:	TYPE	_____	OD, IN.	_____	LENGTH, FT.	_____	TIP ELEV.	_____
FILTER:	MATERIAL	_____	OD, IN.	_____	LENGTH, FT.	_____	BOT. ELEV.	_____

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	<u>68</u>	NO. OF 3" SHELBY TUBE SAMPLES	_____
3.5" DIA. U-SAMPLE BORING	LIN. FT.	_____	NO. OF 3" UNDISTURBED SAMPLES	_____
CORE DRILLING IN ROCK	LIN. FT.	<u>5</u>	OTHER:	_____

BORING CONTRACTOR	<u>AQUIFER DRILLING AND TESTING</u>
DRILLER	<u>DHANRAJ GOPAUL</u>
REMARKS	<u>BOREHOLE TREMIE GROUTED UPON COMPLETION.</u>
RESIDENT ENGINEER	<u>CAROL HAWK</u>
CLASSIFICATION CHECK:	<u>CHERYL J. MOSS</u>
TYPING CHECK:	<u>CAROL HAWK</u>
DATE	<u>10-31-06</u>

**MUESER RUTLEDGE CONSULTING ENGINEERS
ROCK CORE SKETCH**

BORING NO. B-3

SHEET 3 OF 4

FILE NO. 10758

SURFACE ELEV. 17.0

RES. ENGR. CL HAWK

PROJECT 111 LEROY ST

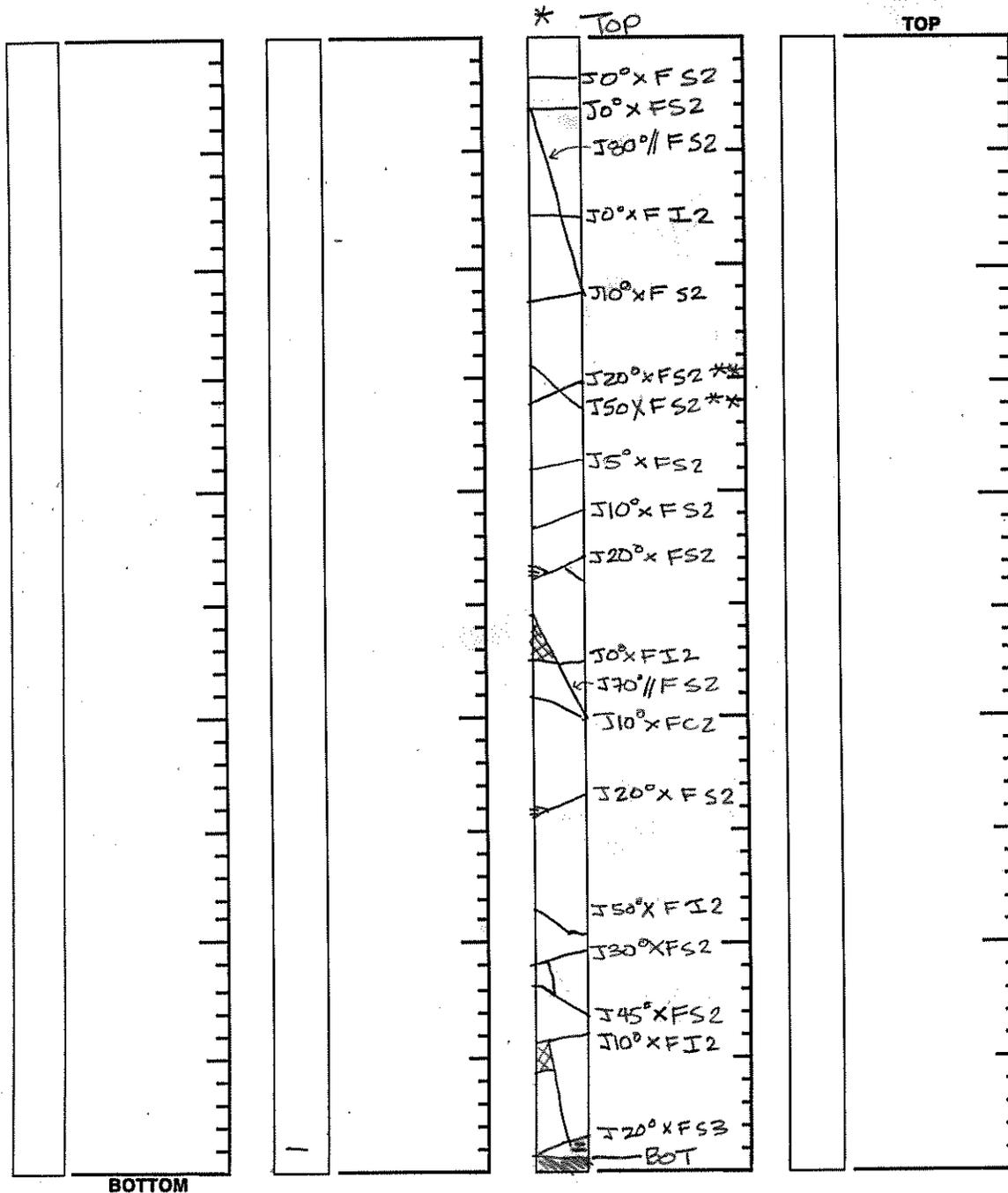
LOCATION NY NY

Run No.	REC / RQD

Run No.	REC / RQD

Run No.	REC / RQD
1C	98 / 42

Run No.	REC / RQD



**ROCK CORE SKETCH
LEGEND**

JOINTING

J - Joint
 MB - Mechanical Break
 * - Angle w/ Horizontal
 // - Parallel
 X - Crossing
 F - Foliation
 S - Stratification
 U - Unfoliated or Unstratified

SURFACE

C - Curved
 I - Irregular
 S - Straight

CONDITION

1 - Slick
 2 - Smooth
 3 - Rough

SKETCH SYMBOLS

Joint
 Healed Joint
 Broken
 Part of Core Not Recovered
 Cavities or Vugs in Core
 Clay
 Sand
 Empty Space

NOTES * 8-IN OF BRN SI, TR. MICA WEDGED IN TOP OF CORE BARREL. SEE JAR SAMPLES.
 ** CLAY IN JOINT

MUESER RUTLEDGE CONSULTING ENGINEERS

PROJECT	111 LEROY STREET	BORING NO.	B-3
LOCATION	NEW YORK, NEW YORK	SHEET	4 OF 4
BORING LOCATION	SEE BORING LOCATION PLAN	FILE NO.	10758
		SURFACE ELEV.	17.0
		DATUM	BOROUGH PRESIDENT OF MANHATTAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG	TYPE OF FEED	CASING USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
TRUCK	DURING CORING	DIA., IN.	4	DEPTH, FT. FROM 0 TO 20
SKID LC 55	MECHANICAL	DIA., IN.		DEPTH, FT. FROM TO
BARGE	HYDRAULIC	DIA., IN.	X	DEPTH, FT. FROM TO
OTHER	OTHER	DIA., IN.		DEPTH, FT. FROM TO

TYPE AND SIZE OF:	DRILLING MUD USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
D-SAMPLER 2" O. D. SPLIT SPOON	DIAMETER OF ROTARY BIT, IN.	4-7/8, 3-7/8, 2-15/16	
U-SAMPLER	TYPE OF DRILLING MUD	QUIK GEL	
S-SAMPLER	AUGER USED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
CORE BARREL NX DOUBLE TUBE	TYPE AND DIAMETER, IN.		
CORE BIT NX DIAMOND			
DRILL RODS NWJ			
	CASING HAMMER, LBS.	140	AVERAGE FALL, IN. 30
	*SAMPLER HAMMER, LBS.	140	AVERAGE FALL, IN. 30
	*USED AUTO HAMMER 11-02-06 DUE TO RAIN		

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION
11-02-06	07:10	17	16	8	OVERNIGHT MUD LEVEL.

PIEZOMETER INSTALLED YES NO SKETCH SHOWN ON _____

STANDPIPE:	TYPE	_____	ID, IN.	_____	LENGTH, FT.	_____	TOP ELEV.	_____
INTAKE ELEMENT:	TYPE	_____	OD, IN.	_____	LENGTH, FT.	_____	TIP ELEV.	_____
FILTER:	MATERIAL	_____	OD, IN.	_____	LENGTH, FT.	_____	BOT. ELEV.	_____

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	70	NO. OF 3" SHELBY TUBE SAMPLES	_____
3.5" DIA. U-SAMPLE BORING	LIN. FT.	_____	NO. OF 3" UNDISTURBED SAMPLES	_____
CORE DRILLING IN ROCK	LIN. FT.	5	OTHER:	_____

BORING CONTRACTOR	AQUIFER DRILLING AND TESTING
DRILLER	ED BORNER HELPERS LEO MALYUKOV
REMARKS	BOREHOLE TREMIE GROUTED AND ASPHALT PATCHED UPON COMPLETION.
RESIDENT ENGINEER	CAROL HAWK DATE 11-02-06
CLASSIFICATION CHECK:	CHERYL J. MOSS TYPING CHECK: CAROL HAWK

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

PROJECT: 111 LEROY STREET
LOCATION: NEW YORK, NEW YORK

BORING NO. B-4
SHEET 1 OF 3
FILE NO. 10758
SURFACE ELEV. 15.1
RES. ENGR. CAROL HAWK

DAILY PROGRESS	SAMPLE			SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS		
	NO.	DEPTH	BLOWS/6"							
09:40					ASPHALT	0.5	DRILLED	Drilled top 1'.		
10-31-08	1D	1.0	16-11	Red brick fragments, some fine to coarse sand, trace glass fragments, silt (Fill) (GP-GM) Brown fine to coarse sand and red brick fragments, some silt (Fill) (SM) Red brick fragments, trace ceramic fragment, fine to coarse sand, silt (Fill) (GP-GM) Rock fragment, trace brick fragment, fine to coarse sand (Fill) (GP) Light gray fine to coarse sand, some silt to dark brown silty fine sand (Fill) (SM)	F		AHEAD			
Tuesday		3.0	6-3					4"		
Partly	2D	3.0	4-4							
Cloudy		5.0	3-8					5		
50°F-60°F	3D	5.0	9-6							REC=3"
		7.0	7-6							
	4D	7.0	6-5							
		9.0	6-6							
	5D	9.0	4-1					10		REC=2"
		11.0	6-3							
						12				
					T1	14				
					CBLS & BLDRS	15		No mud return. Hard drilling.		
						17				
	6D	17.0	10-20	Red brown coarse to fine sand, trace silt (SP-SM)	T1		▼	REC=6"		
		19.0	23-27				20		REC=4"	
	7D	20.0	11-11	Red brown fine to coarse sand, some gravel, trace silt (SP-SM)	T1					
		22.0	23-33							
						23.5				
						25				
	8D	25.0	10-6	Brown fine sand, some silt, gravel, trace mica (SM)						
		27.0	6-9							
						30				
	9D	30.0	6-6	Brown fine sand, some silt, trace mica (SM)						
		32.0	6-8							
						35				
	10D	35.0	4-7	Do 9D (SM)	S					
		37.0	7-7							
						40				
	11D	40.0	15-8	Red brown fine sand, some silt, mica (SM)						
		42.0	9-10							
						45				
	12D	45.0	6-6	Red brown fine to medium sand, some silt, trace mica (SM)						
		47.0	9-7							
						48.5				
						50				
	13D	50.0	4-4	Red brown silt, some fine sand, trace mica (ML)	M					
		52.0	7-8							

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

PROJECT: 111 LEROY STREET
 LOCATION: NEW YORK, NEW YORK

BORING NO. B-4
 SHEET 2 OF 3
 FILE NO. 10758
 SURFACE ELEV. 15.1
 RES. ENGR. CAROL HAWK

DAILY PROGRESS	SAMPLE			SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
	NO.	DEPTH	BLOWS/6"					
Cont'd 10-31-08					M			
	14D	55.0 57.0	4-4 13-23	Top 14": Red brown silt, some fine to medium sand, trace mlca (ML) Bot 4": Red brown gravelly fine to coarse sand, some silt (SM)		55 56.5		
	15D	60.0 62.0	17-19 22-28	Red brown coarse to fine sand, some gravel, silt (SM)		60		Rig chatter at 58.5'. Lost mud from 60' to 65'.
	16D	65.0 67.0	22-20 24-35	Do 15D (SM)	T2	65		Lost mud from 65' to 70'.
13:40	17D	70.0 72.0	27-25 40-65	Red brown fine to coarse sandy gravel, some silt (GM)		70 72		Rig chatter from 69' to 70'. Borehole had collapsed at 60' when sent down spoon. End of Boring at 72'.
						75		
						80		
						85		
						90		
						95		
						100		

MUESER RUTLEDGE CONSULTING ENGINEERS

PROJECT	111 LEROY STREET	BORING NO.	B-4
LOCATION	NEW YORK, NEW YORK	SHEET	3 OF 3
BORING LOCATION	SEE BORING LOCATION PLAN	FILE NO.	10758
		SURFACE ELEV.	15.1
		DATUM	BOROUGH PRESIDENT OF MANHATTAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG		TYPE OF FEED	CASING USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
TRUCK	MOBILE B-61	DURING CORING	DIA., IN.	4	DEPTH, FT. FROM 0 TO 18
SKID		MECHANICAL	DIA., IN.		DEPTH, FT. FROM TO
BARGE		HYDRAULIC	DIA., IN.		DEPTH, FT. FROM TO
OTHER		OTHER	DIA., IN.		DEPTH, FT. FROM TO

TYPE AND SIZE OF:		DRILLING MUD USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
D-SAMPLER	2" O. D. SPLIT SPOON	DIAMETER OF ROTARY BIT, IN.	5-3/4, 3-7/8	
U-SAMPLER		TYPE OF DRILLING MUD	QUIK GEL	
S-SAMPLER		AUGER USED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
CORE BARREL	HQ SINGLE TUBE*	TYPE AND DIAMETER, IN.		
CORE BIT	HQ DIAMOND*			
DRILL RODS	NWJ			
*FOR CORING BOULDERS		CASING HAMMER, LBS.	140	AVERAGE FALL, IN. 30
		SAMPLER HAMMER, LBS.	140	AVERAGE FALL, IN. 30

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION
11-01-06					COULD NOT MEASURE OVERNIGHT MUD LEVEL, TAPE CATCHING ON OBSTRUCTION IN CASING AT 8'.

PIEZOMETER INSTALLED YES NO SKETCH SHOWN ON _____

STANDPIPE:	TYPE	72	ID, IN.	LENGTH, FT.	TOP ELEV.
INTAKE ELEMENT:	TYPE		OD, IN.	LENGTH, FT.	TIP ELEV.
FILTER:	MATERIAL		OD, IN.	LENGTH, FT.	BOT. ELEV.

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	NO. OF 3" SHELBY TUBE SAMPLES
3.5" DIA. U-SAMPLE BORING	LIN. FT.	NO. OF 3" UNDISTURBED SAMPLES
CORE DRILLING IN ROCK	LIN. FT.	OTHER:

BORING CONTRACTOR	AQUIFER DRILLING AND TESTING		
DRILLER	DHANRAJ GOPAUL	HELPERS	PREM GOPAUL
REMARKS	BOREHOLE TREMIE GROUTED & ASPHALT PATCHED UPON COMPLETION.		
RESIDENT ENGINEER	CAROL HAWK	DATE	11-01-06
CLASSIFICATION CHECK:	CHERYL J. MOSS	TYPING CHECK:	CAROL HAWK

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

PROJECT: 111 LEROY STREET
 LOCATION: NEW YORK, NEW YORK

BORING NO. B-5P
 SHEET 2 OF 6
 FILE NO. 10758
 SURFACE ELEV. 17.3
 RES. ENGR. CAROL HAWK

DAILY PROGRESS	SAMPLE			SAMPLE DESCRIPTION	STRATA	CASING		REMARKS
	NO.	DEPTH	BLOWS/6"			DEPTH	BLOWS	
Cont'd 10-31-06					S			
						53.5		
					M	55		
		14D	55.0	6-8				
			57.0	11-21				
						58		Rig chatter from 58' to 59'.
					T2	60		
	15D	60.0	28-22					
		62.0	20-26					
					65		Lost mud from 60 to 65'.	
	16D	65.0	34-75/5"		65.5			
		65.9						
	1C	65.5	REC=5%	BLDR	67		Taped borehole at 65.5' before sent down core barrel.	
		70.5	RQD=NA					
				T2	70		Lost mud from 66.5' to 70.5'. Rig chatter from 65.5' to 67'.	
Partly Sunny 15:10	17D	71.0	16-25					
08:30		73.0	35-75					
11-01-06 Wednesday Clear, 80°F 09:10					73		End of Boring at 73'.	
					75			
					80			
					85			
					90			
					95			
					100			

**MUESER RUTLEDGE CONSULTING ENGINEERS
ROCK CORE SKETCH**

BORING NO. B-5P

SHEET 3 OF 6

FILE NO. 10758

SURFACE ELEV. 17.3

RES. ENGR. CL HAWK

PROJECT 111 LEROY ST

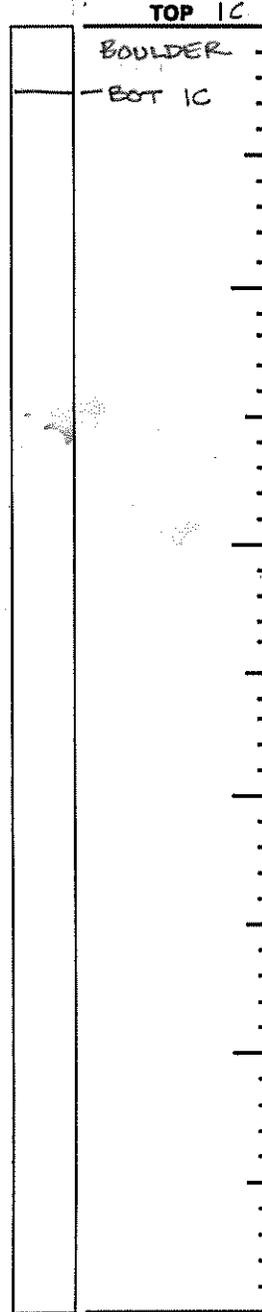
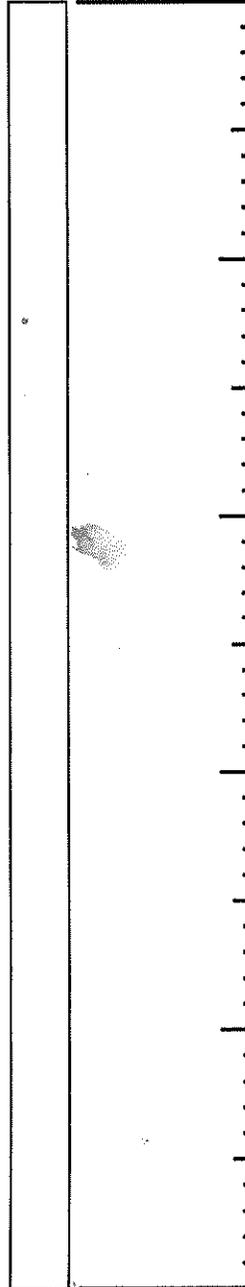
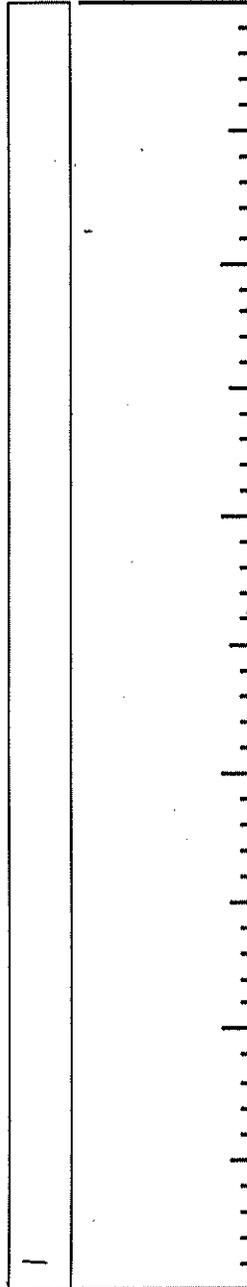
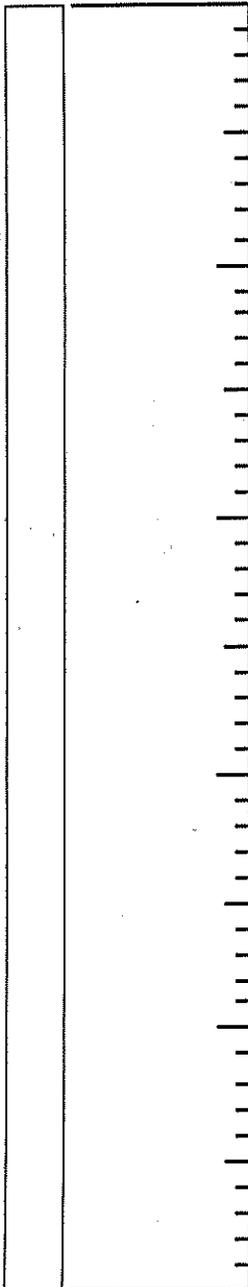
LOCATION NY NY

Run No.	REC / RQD

Run No.	REC / RQD

Run No.	REC / RQD

Run No.	REC / RQD
1C	5% /



SCALE: 1 division = 0.1 feet

ROCK CORE SKETCH LEGEND

JOINTING

- J - Joint
- MB - Mechanical Break
- X - Angle w/ Horizontal
- // - Parallel
- X - Crossing
- F - Foliation
- S - Stratification
- U - Unfolded or Unstratified

SURFACE

- C - Curved
- I - Irregular
- S - Straight

CONDITION

- 1 - Slick
- 2 - Smooth
- 3 - Rough

SKETCH SYMBOLS

- Joint
- Healed Joint
- Broken
- Part of Core Not Recovered
- Cavities or Vugs in Core
- Clay
- Sand
- Empty Space

BOTTOM

NOTES _____

VARIABLE HEAD PERMEABILITY TEST

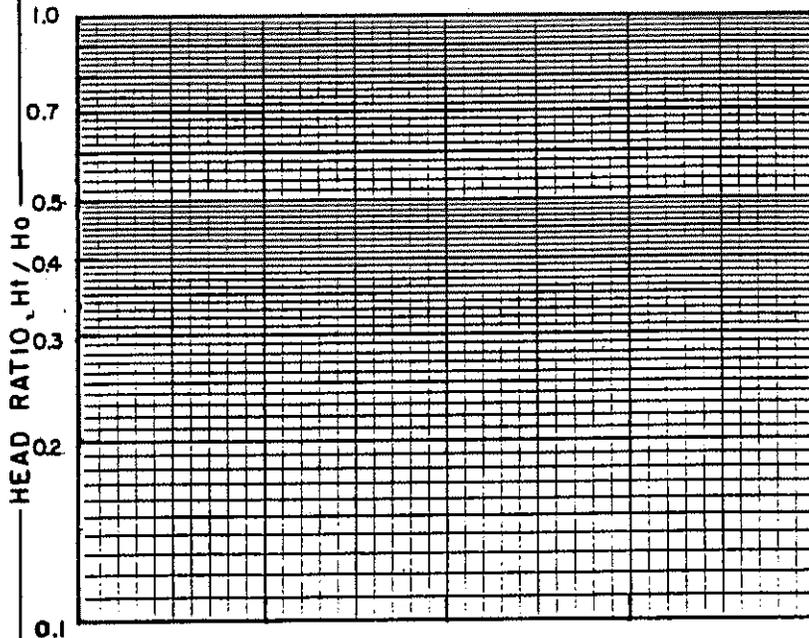
BOREHOLE OR PIEZOMETER NO. B-5P

TEST NO. 1

PROJECT 111 LEROY ST RES. ENG. CLHAWK

LOCATION NY NY CALC. BY CH DATE 11/3/06

PIEZOMETER LOCATION _____ CH'KD BY JWC DATE 11/27/06



INTAKE POINT

depth to bottom, ft = 40.4

depth to top, ft = 27

length, ft = 13.4 = L

diameter, in = 4, ft = _____ = 2R

STANDPIPE/RISER

diameter, in = 2 3/8, ft = 0.2 = 2r

depth of casing, ft = N/A

depth to which standpipe was bailed, ft = N/A = Z

ELAPSED TIME, Δt , MIN.

READING TIME			TEST DEPTH-RIM TO WATER ft.	DEPTH-RIM TO TIDE OR GWL ft.	UNBALANCED HEAD H ft.	HEAD RATIO Ht/Ho	REMARKS
DATE	CLOCK	Δt MIN.					
11/3/06	0749		20.3		0		STATIC WATER LEVEL
		0.5	1.6				WATER LVL MEASURED FROM AROUND SURFACE.
		1.0	2.1				
		1.5	2.4				
		2.0	2.7				
		3.0	3.3				
		4.0	3.9				
		5.0	4.5				
		10.0	6.9				
		15.0	10.4				
		25.0	13.3				
		35.0	14.6				

PIEZOMETER NO. B-5P

MUESER RUTLEDGE CONSULTING ENGINEERS

PROJECT	<u>111 LEROY STREET</u>	BORING NO.	<u>B-5P</u>
LOCATION	<u>NEW YORK, NEW YORK</u>	SHEET	<u>6 OF 6</u>
BORING LOCATION	<u>SEE BORING LOCATION PLAN</u>	FILE NO.	<u>10758</u>
		SURFACE ELEV.	<u>17.3</u>
		DATUM	<u>BOROUGH PRESIDENT OF MANHATTAN</u>

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG	TYPE OF FEED	CASING USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
TRUCK	DURING CORING	DIA., IN.	<u>4</u>	DEPTH, FT. FROM <u>0</u> TO <u>28</u>
SKID	MECHANICAL	DIA., IN.		DEPTH, FT. FROM _____ TO _____
BARGE	HYDRAULIC	DIA., IN.	<u>X</u>	DEPTH, FT. FROM _____ TO _____
OTHER	OTHER	DIA., IN.		DEPTH, FT. FROM _____ TO _____

TYPE AND SIZE OF:	DRILLING MUD USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
D-SAMPLER	DIAMETER OF ROTARY BIT, IN.		<u>4-7/8</u>
U-SAMPLER	TYPE OF DRILLING MUD		<u>REVERT</u>
S-SAMPLER			
CORE BARREL	AUGER USED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
CORE BIT	TYPE AND DIAMETER, IN.		
DRILL RODS			
	CASING HAMMER, LBS.	<u>140</u>	AVERAGE FALL, IN. _____
	SAMPLER HAMMER, LBS.		AVERAGE FALL, IN. <u>30</u>

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION
11-01-06	08:30	70.5	28	21.5	OVERNIGHT MUD LEVEL.
					SEE PIEZOMETER RECORDS ON SHEET 4

PIEZOMETER INSTALLED YES NO **SKETCH SHOWN ON** SEE SHEET NO. 4

STANDPIPE:	TYPE	<u>SOLID PVC</u>	ID, IN.	<u>2-3/8</u>	LENGTH, FT.	<u>30</u>	TOP ELEV.	<u>17.2</u>
INTAKE ELEMENT:	TYPE	<u>SLOTTED PVC</u>	OD, IN.	<u>2-3/8</u>	LENGTH, FT.	<u>10</u>	TIP ELEV.	<u>-22.8</u>
FILTER:	MATERIAL	<u>SAND</u>	OD, IN.	<u>4</u>	LENGTH, FT.	<u>13.4</u>	BOT. ELEV.	<u>-22.8</u>

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	<u>68</u>	NO. OF 3" SHELBY TUBE SAMPLES	_____
3.5" DIA. U-SAMPLE BORING	LIN. FT.	_____	NO. OF 3" UNDISTURBED SAMPLES	_____
CORE DRILLING IN ROCK	LIN. FT.	<u>5</u>	OTHER:	_____

BORING CONTRACTOR AQUIFER DRILLING AND TESTING

DRILLER ED BORNER **HELPERS** LEO MALYUKOV

REMARKS PIEZOMETER INSTALLED UPON COMPLETION.

RESIDENT ENGINEER CAROL HAWK **DATE** 11-01-06

CLASSIFICATION CHECK: CHERYL J. MOSS **TYPING CHECK:** CAROL HAWK

MUESER RUTLEDGE CONSULTING ENGINEERS

BORING LOG

PROJECT: 111 LEROY STREET
 LOCATION: NEW YORK, NEW YORK

BORING NO. B-6
 SHEET 2 OF 4
 FILE NO. 10758
 SURFACE ELEV. 14.5
 RES. ENGR. CAROL HAWK

DAILY PROGRESS	SAMPLE			SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
	NO.	DEPTH	BLOWS/6"					
Cont'd 10-23-06 Monday Clear, Breezy 50°F	15D	55.0 57.0	8-9 12-14	Red brown silty fine sand, trace mica (SM)	S	55		
						58.5 60		Lost mud from 60' to 65'.
Partly Cloudy 13:40	16D	60.0 62.0	68-23 14-16	Red brown gravelly fine to coarse sand, some silt (SM)	T2	65		Rlg chatter from 64.5' to 65'. Gravel layer. 16D: REC=4"
07:20 10-24-06 Tuesday Cloudy 50°F	17D	65.0 66.3	35-55 100/3"	Red brown coarse to fine coarse sand, trace gravel, silt (WASH) (SP-SM)	CBL	66.3		Cobbles cored with HQ barrel from 66.3' to 67'. Lost mud from 65' to 72'.
	1C	66.3	REC=100%	Cobbles	T2			
	2C	69.5	REC=55%	Boulders and cobbles		69.5		
		72.0	RQD=NA		BLDRS & CBL			
	18NR	72.0	100/0"	No recovery		72		
		72.0						
	3C	72.0 77.0	REC=36% RQD=8%	Intermediate slightly weathered to moderately weathered gray pegmatite, closely jointed, unweathered joints		75		Gneiss pieces maybe fell in from above.
	4C	78.0 83.0	REC=97% RQD=85%	Hard unweathered gray pegmatite, closely jointed to blocky, Iron stained joints	R		2* 4* 5* 6* 7*	*Coring time in minutes per foot.
Partly Sunny 13:40						83		End of Boring at 83'.
						85		
						90		
						95		
						100		

**MUESER RUTLEDGE CONSULTING ENGINEERS
ROCK CORE SKETCH**

BORING NO. B-6
SHEET 3 OF 4
FILE NO. 10758
SURFACE ELEV. 145
RES. ENGR. CLHAWK

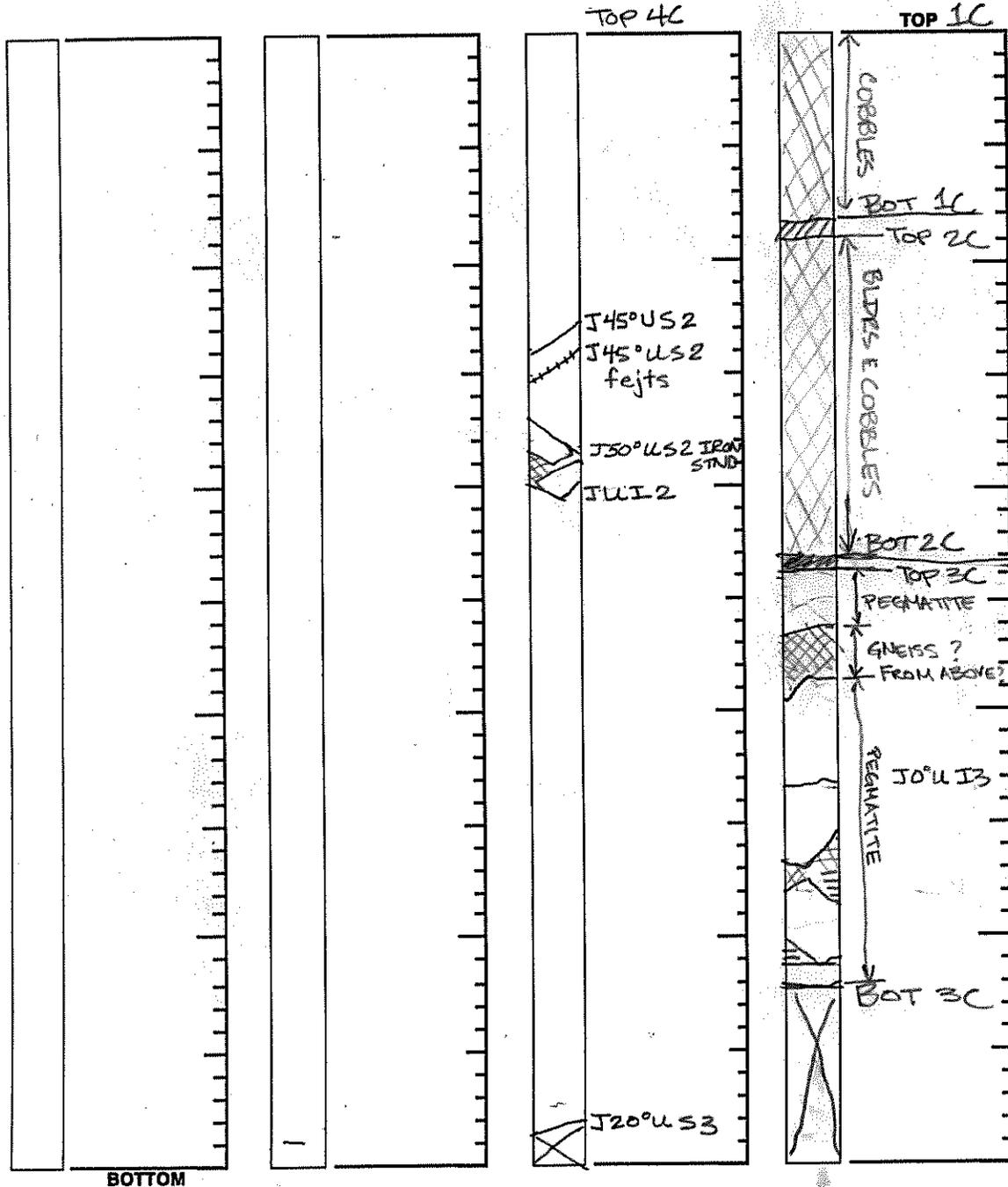
PROJECT 111 LEROY ST
LOCATION NY NY

Run No.	REC / RQD

Run No.	REC / RQD

Run No.	REC / RQD
4C	97 / 85

Run No.	REC / RQD
1C	100%
2C	55%
3C	36 / 8



ROCK CORE SKETCH LEGEND

JOINTING

- J - Joint
- MB - Mechanical Break
- X - Angle w/ Horizontal
- // - Parallel
- X - Crossing
- F - Foliation
- S - Stratification
- U - Unfoliated or Unstratified

SURFACE

- C - Curved
- I - Irregular
- S - Straight

CONDITION

- 1 - Slick
- 2 - Smooth
- 3 - Rough

SKETCH SYMBOLS

- Joint
- Healed Joint
- Broken
- Part of Core Not Recovered
- Cavities or Vugs in Core
- Clay
- Sand
- Empty Space

NOTES _____

MUESER RUTLEDGE CONSULTING ENGINEERS

PROJECT	111 LEROY STREET	BORING NO.	B-6
LOCATION	NEW YORK, NEW YORK	SHEET	4 OF 4
BORING LOCATION	SEE BORING LOCATION PLAN	FILE NO.	10758
		SURFACE ELEV.	14.5
		DATUM	BOROUGH PRESIDENT OF MANHATTAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG		TYPE OF FEED	CASING USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
TRUCK	MOBILE B-61	DURING CORING	DIA., IN.	4	DEPTH, FT. FROM 0 TO 19
SKID		MECHANICAL	DIA., IN.	3	DEPTH, FT. FROM 0 TO 67
BARGE		HYDRAULIC	DIA., IN.		DEPTH, FT. FROM TO
OTHER		OTHER			

TYPE AND SIZE OF:		DRILLING MUD USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
D-SAMPLER	2" O. D. SPLIT SPOON	DIAMETER OF ROTARY BIT, IN.	5-1/2, 3-7/8	
U-SAMPLER		TYPE OF DRILLING MUD	REVERT, QUIK GEL	
S-SAMPLER				
CORE BARREL	HQ SINGLE TUBE*/NX DOUBLE TUBE	AUGER USED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
CORE BIT	HQ DIAMOND*/NX DIAMOND	TYPE AND DIAMETER, IN.		
DRILL RODS	NWJ			
*FOR CORING BOULDERS		CASING HAMMER, LBS.	AVERAGE FALL, IN.	
		SAMPLER HAMMER, LBS.	140	AVERAGE FALL, IN. 30

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION
10-24-06	06:30	65	19	46	OVERNIGHT MUD LEVEL PER DRILLER BASED ON MUD LINE ON RODS.

PIEZOMETER INSTALLED YES NO SKETCH SHOWN ON _____

STANDPIPE:	TYPE	_____	ID, IN.	_____	LENGTH, FT.	_____	TOP ELEV.	_____
INTAKE ELEMENT:	TYPE	_____	OD, IN.	_____	LENGTH, FT.	_____	TIP ELEV.	_____
FILTER:	MATERIAL	_____	OD, IN.	_____	LENGTH, FT.	_____	BOT. ELEV.	_____

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	66.3	NO. OF 3" SHELBY TUBE SAMPLES	_____
3.5" DIA. U-SAMPLE BORING	LIN. FT.	_____	NO. OF 3" UNDISTURBED SAMPLES	_____
CORE DRILLING IN ROCK	LIN. FT.	16.7	OTHER:	_____

BORING CONTRACTOR	AQUIFER DRILLING AND TESTING		
DRILLER	DHANRAJ GOPAUL	HELPERS	PREM GOPAUL
REMARKS	BOREHOLE TREMIE GROUTED AND SIDEWALK PATCHED UPON COMPLETION.		
RESIDENT ENGINEER	CAROL HAWK	DATE	10-25-06
CLASSIFICATION CHECK:	CHERYL J. MOSS	TYPING CHECK:	CAROL HAWK

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

PROJECT: 111 LEROY STREET
LOCATION: NEW YORK, NEW YORK

BORING NO. B-7
SHEET 1 OF 3
FILE NO. 10758A
SURFACE ELEV. +14.8±
RES. ENGR. CHRISTOS ZOUPANTIS

DAILY PROGRESS	SAMPLE			SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
	NO.	DEPTH	BLOWS/6"					
09:00					**	0.5	DRILLED	**Asphalt from 0' to 0.5'.
12-19-14	1D	1.0	9-19	Top: Brn f-m sand, some silt, brk layer (Fill) (SM)			AHEAD	
Friday		3.0	12-20	Mid: Red brn f sand, sm silt (SM)			4"	
Cloudy				Bot: Gray f-m sand, sm si, tr cndrs, brk (Fill) (SM)				
37°F	2D	3.0	10-12	Tan fine to medium sand, some silt (Fill) (SM)		5		REC=4"
		5.0	14-10		F			
	3D	5.0	12-16	Gray fine to coarse sand, some gravel, silt (Fill) (SM)				REC=2"
		7.0	9-8					
	4D	7.0	4-6	Red brick fragments, some fine to coarse sand, trace silt (Fill) (GP-GM)		10		REC=5"
		9.0	4-6					
	5D	9.0	5-4	Do 4D (Fill) (GP-GM)		12		REC=2"
		11.0	3-7		***	12.2		***Boulder from 12' to 12.2'.
					T1	15	↓	
	6D	15.0	7-5	Brown coarse to fine sand, some gravel, trace silt (SP-SM)				Gravel at bottom.
		17.0	6-5					
						17.5		
						20		
	7D	20.0	7-8	Brown fine sand, some silt (SM)				
		22.0	7-7					
						25		
	8D	25.0	3-3	Brown silty fine sand (SM)				
		27.0	4-4					
						30		
	9D	30.0	5-4	Top: Brown fine sand, some silt (SM)				
		32.0	5-6	Bot: Red brown & light brown fine sand, some silt (SM)	S	35		
	10D	35.0	4-5	Red brown fine sand, some silt, trace mica (SM)				
		37.0	6-8					
						40		
	11D	40.0	6-5	Red brown fine sand, some silt, trace mica, layer of light brown fine sand, some silt (SM)				
		42.0	8-8					
						45		
	12D	45.0	4-5	Red brown fine sand, some silt, trace mica (SM)				
		47.0	5-4					
						50		
	13D	50.0	6-7	Red brown fine sand, some silt (SM)				
		52.0	8-7			52		

MUESER RUTLEDGE CONSULTING ENGINEERS
BORING LOG

PROJECT: 111 LEROY STREET
 LOCATION: NEW YORK, NEW YORK

BORING NO. B-7
 SHEET 2 OF 3
 FILE NO. 10758A
 SURFACE ELEV. +14.8±
 RES. ENGR. CHRISTOS ZOUPANTIS

DAILY PROGRESS	SAMPLE			SAMPLE DESCRIPTION	STRATA	CASING		REMARKS
	NO.	DEPTH	BLOWS/6"			DEPTH	BLOWS	
Cont'd 12-19-14 Friday Cloudy 37°F					S	52		Rig chatter from 52' to 55'.
						55		
	14D	55.0	16-40	Red brown fine to coarse sand, some gravel, silt (SM)	T2			Rig chatter from 57' to 58'. Slow drilling from 57.5' to 60'.
		57.0	53-13					
						60		
	15D	60.0	20-25	Red brown fine to coarse sand, some gravel, trace silt (SP-SM)		62		End of Boring at 62'.
12:30		62.0	31-23					
						65		
						70		
						75		
						80		
						85		
						90		
						95		
						100		

MUESER RUTLEDGE CONSULTING ENGINEERS

PROJECT	111 LEROY STREET	BORING NO.	B-7
LOCATION	NEW YORK, NEW YORK	SHEET	3 OF 3
BORING LOCATION	SEE BORING LOCATION PLAN	FILE NO.	10758A
		SURFACE ELEV.	+14.8±
		DATUM	BOROUGH PRESIDENT OF MANHATTAN

BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE

TYPE OF BORING RIG	TYPE OF FEED	CASING USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
TRUCK	DURING CORING	DIA., IN.	DEPTH, FT. FROM	TO
ACKER 82	MECHANICAL	4	0	15
SKID	HYDRAULIC	DIA., IN.	DEPTH, FT. FROM	TO
	X			
BARGE	OTHER	DIA., IN.	DEPTH, FT. FROM	TO
OTHER				

TYPE AND SIZE OF:	DRILLING MUD USED	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
D-SAMPLER	DIAMETER OF ROTARY BIT, IN.	3-7/8	
2" O. D. SPLIT SPOON	TYPE OF DRILLING MUD	EZ-MUD	
U-SAMPLER			
S-SAMPLER			
CORE BARREL	AUGER USED	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
CORE BIT	TYPE AND DIAMETER, IN.		
DRILL RODS			
NWJ			
	*CASING HAMMER, LBS.	140	AVERAGE FALL, IN. 30
	*SAMPLER HAMMER, LBS.	140	AVERAGE FALL, IN. 30
	*USED SAFETY HAMMER.		

WATER LEVEL OBSERVATIONS IN BOREHOLE

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION
					NO WATER LEVEL OBSERVATIONS MADE.

PIEZOMETER INSTALLED YES NO SKETCH SHOWN ON _____

STANDPIPE:	TYPE	_____	ID, IN.	_____	LENGTH, FT.	_____	TOP ELEV.	_____
INTAKE ELEMENT:	TYPE	_____	OD, IN.	_____	LENGTH, FT.	_____	TIP ELEV.	_____
FILTER:	MATERIAL	_____	OD, IN.	_____	LENGTH, FT.	_____	BOT. ELEV.	_____

PAY QUANTITIES

3.5" DIA. DRY SAMPLE BORING	LIN. FT.	62	NO. OF 3" SHELBY TUBE SAMPLES	_____
3.5" DIA. U-SAMPLE BORING	LIN. FT.	_____	NO. OF 3" UNDISTURBED SAMPLES	_____
CORE DRILLING IN ROCK	LIN. FT.	_____	OTHER:	_____

BORING CONTRACTOR	WARREN GEORGE INC.
DRILLER	EDDIE CARDONA HELPERS SHAWN BIGG
REMARKS	BOREHOLE BACKFILLED WITH CUTTINGS, CONCRETE PATCHED.
RESIDENT ENGINEER	CHRISTOS ZOUPANTIS DATE 12-19-14
CLASSIFICATION CHECK:	CHERYL J. MOSS TYPING CHECK: CHERYL J. MOSS

APPENDIX B
(MRCE Test Pit Logs and Photographs)



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TEST PIT LOG

TEST PIT NO. TR1

FILE NO. 10750A

DATE 8/4/14

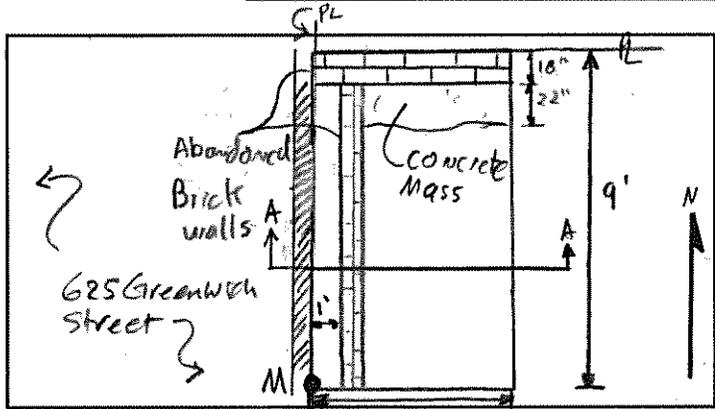
RES ENGR. R. GEH

PROJECT: 111 LEROY ST

LOCATION: NEW YORK, NY

TEST/INSP. EQUIPMENT _____

REF. CODES/STDS _____



NOTES

- Excavation 1130-1530
- Used Bobcat E32 for excavation
- Backfill -- 1530 (8/4) - 0930 (8/5)
- 116 loose lifts compacted w/ Dynapac LT wood plate compactor
- Patched on 8/5
- no water observed

Ground Surface Elevation 16 ±

Sample Depth	Description	Depth
0.0	5" asphalt	1.5
1.5	Brown f-c sand, some gravel, cobbles, stone, brick, trace asphalt silt (SP-SM) (FILL)	3.0
3.0	Abandoned brick wall	4.5
4.5	Abandoned brick wall	6.0
6.0	concrete footing	7.5
7.5	concrete footing	9.0
9.0	Foundation wall of 625 Greenwich Street	10.5
10.5	Red/brown f-c sand, some gravel, cobbles, trace silt (SP-SM)	12.0
12.0	concrete footing	13.5
13.5		15.0

Section A-A

TEST PIT NO. TP-1



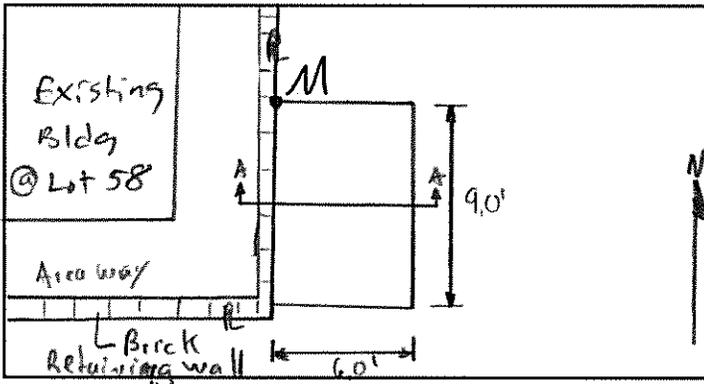
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TEST PIT LOG

PROJECT: 111 LEROY ST
LOCATION: NEW YORK, NY
TEST/INSP. EQUIPMENT _____

TEST PIT NO. TP-2
FILE NO. 10758A
DATE 8/5/14
RES ENGR. B.GEHO
REF. CODES/STDS _____



NOTES

- Excavation -- 0930-1015
- USED Bobcat E32
- Backfill -- 1030-1230
- compacted w/ Dynapac LT6004 plate compactor
- Patched on 8/5
- no water observed

Ground Surface Elevation 17 ±

Sample Depth	Description	Ground surface	Depth
0.0	AREA WAY	4" Asphalt	
1.0	Brick Retaining Wall	Brn f-c sand Some gravel, trace cobbles, brick, silt (SP-SM) (FILL)	1.0
2.0		Brn f-m sand, Some silt (SM)	2.0
3.0			3.0
4.0			4.0
5.0			5.0
6.0			6.0
7.0		Red/Brn f-c sand, trace gravel, cobbles, silt (SP-SM)	7.0
8.0			8.0
9.0	Concrete footing		9.0
10.0			10.0

Section A-A

TEST PIT NO. TP-2



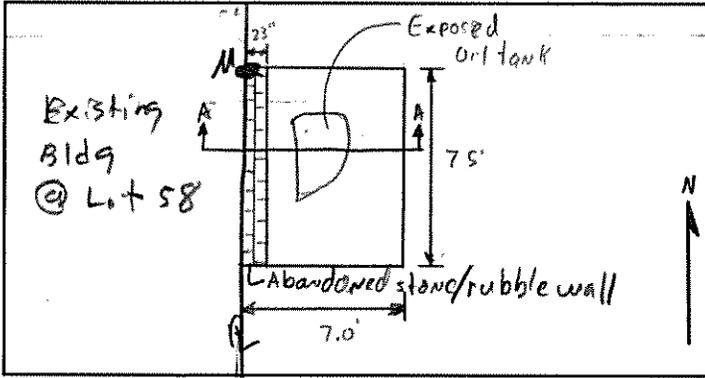
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TEST PIT LOG

PROJECT: 111 LEROY ST.
LOCATION: NEW YORK, NY
TEST/INSP. EQUIPMENT _____

TEST PIT NO. TP-3
FILE NO. 10758A
DATE 7/29/14
RES ENGR. B. GEHO
REF. CODES/STDS _____



NOTES

- Excavation -- 1345 - 1530
 - Equipment - Bobcat E32
 - Encountered old heating oil tank, unable to excavate along wall, bucket too wide to fit between wall & tank.
 - Backfill -- 1300 - 1500
 - DYNAPAC LG6004 plate compactor
 - 156 loose fills
 - surface patched 8/1
 - no water observed
- Ground Surface Elevation 17 ±

Sample Depth	Description	Depth
	8" Asphalt	1.0
	yellow/tan f-m sand, trace silt, gravel (sp-sm)	2.0
	Brn f-c sand, some gravel, brick, stone, cobbles, trace silt (sp-sm)	3.0
	Exposed oil tank	4.0
	Tan f-c sand, trace silt, gravel (sp-sm)	5.0
		6.0
		7.0
		8.0

Section A-A

Additional details from diagram: Abandoned stone/rubble wall (7.5' high, 7.0' wide), 2' distance from wall to tank, 1' depth of tank, 2' width of tank at base, 4.0' depth of tank, 8" asphalt surface, 3" gap between asphalt and tank, 4.5' depth of tank.

TEST PIT NO. TP-3



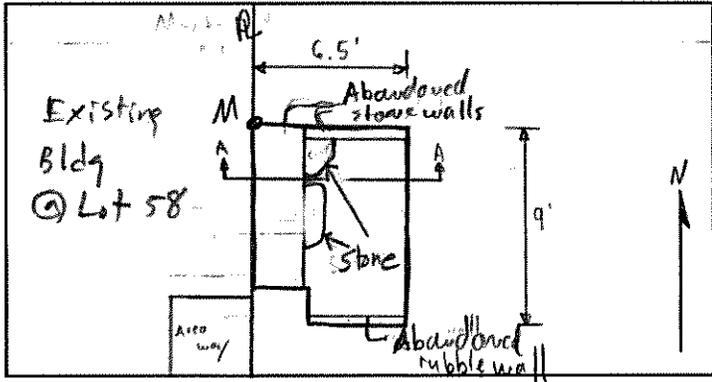
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TEST PIT LOG

PROJECT: 111 LEROY ST.
LOCATION: New York, NY
TEST/INSP. EQUIPMENT _____

TEST PIT NO. TP-3A
FILE NO. 10758A
DATE 7/30/14
RES ENGR. B. GEHO
REF. CODES/STDS _____



NOTES

- Excavation -- 0900 - 0930 (8/4)
- Used Bobcat #32 for excavation
- Backfill -- 0930 (8/4) - 0915 (8/5)
- Used 1 1/2 Tons of fill & compacted with Dynapac LT6004
- needed to bring gravel to complete backfill
- Pallets on 8/5
- no water observed

Ground Surface Elevation 17 ±

Sample Depth	Description	Depth
	4" Asphalt	
1.5'	Light Brown f-c sand, some stone, brick, gravel, traces silt, asphalt (SP-SM) (FILL)	1.5'
3.0'		3.0'
4.5'		4.5'
6.0'		6.0'
7.5'		7.5'
9.0'	1" concrete slab	9.0'
10.5'	Brown f-c sand, trace gravel, silt (SP-SM)	10.5'
12.0'		12.0'
13.5'		13.5'
15.0'	Brown f-c sand, some cobbles, gravel, trace silt (SP-SM)	15.0'

Section A-A

TEST PIT NO. TP-3A



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TEST PIT LOG

File No. 10758A

Date 7/21/14

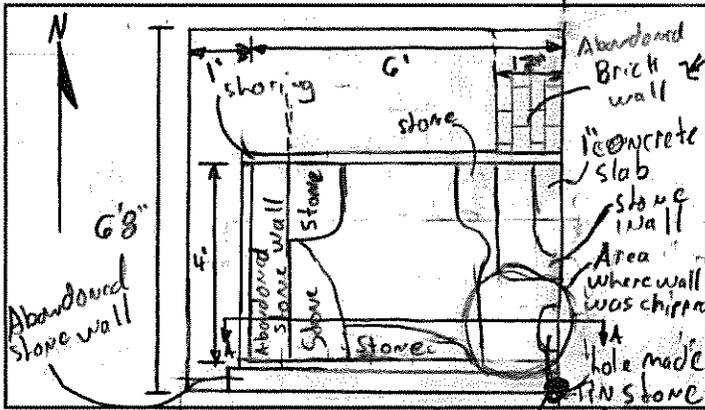
Test Pit No. TP4

Res. Engr. B. GETH

Project 111 LEROY ST.

Location NEW YORK, NY

Existing Bldg @ Lot 64



NOTES

- Excavation -- 1030 (7/29) - 1230 (7/30)
- Used Bobcat E32
- Backfill -- 1330 - 1530 (7/30)
- used Omnipac CT6274 plate compactor
- 1ft loose fill
- Surface patched 8/1
- no water obs
- brick wall was chipped away & a hole made in the stone in the south east corner to expose the foundation

Ground Surface Elevation 17 ±

Sample Depth	Description	Depth
A	Ground surface	A
	stone wall	1.0
	shoring	2.0
	shoring	3.0
	shoring	4.0
	shoring	5.0
	shoring	6.0
	Red f-c sand & stone blocks, some brick, cobbles, gravel, trace asphalt silt (SP-SM) (F710)	7.0
	Red f-c sand, trace silt (SP-SM)	8.0
	Abandoned Stone Wall	9.0
	Stone was chipped away to expose foundation	10.0
	stone	11.0
	stone	12.0

22"

Section A-A

TEST PIT NO. TP4



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TEST PIT LOG

File No. 10758A

Date 7/29/14

Test Pit No. TR-5

Res. Engr. B. GAO

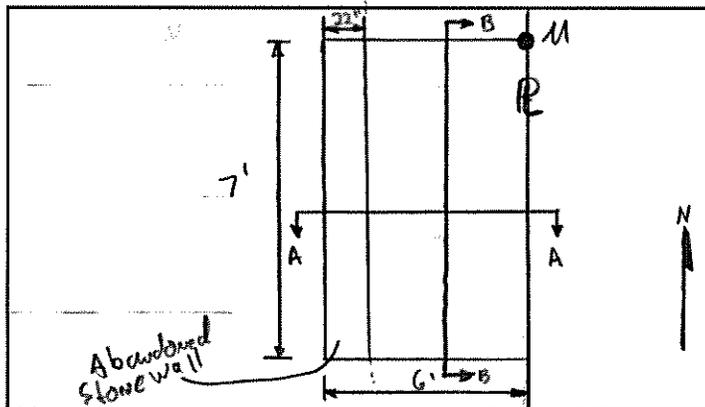
Project III LEROY ST.

Location NEW YORK, NY

Sheet Y2

NOTES

- Excavation started 0900 - 1030
- Used Bobcat E32 for excavation
- Borehill - 7/30/14 0915 - 1115
- stone/rubble wall extends further west, was unable to determine width.
- Dynamic LT6004 plate compactor used for backfill
- 1 ft loose lifts compacted
- Surface patched 8/1
- no water obs.



Ground Surface Elevation 17 ±

Sample Depth	Description	Ground Surface	Depth
		ASPHALT	
		2" ±	
		Grey/Bw f-c sand, some gravel, cobbles, trace brick, stone, asphalt, silt (SP-SM)(FILL)	1.0
			2.0
			3.0
		Bw. Sandy Silt (ML)	4.0
			5.0
			6.0
		Red/Bw. f-c sand, trace silt (SP-SM)	7.0
			8.0
			9.0

Abandoned Stone Wall
unknown depth

7.0'

22"

22"

Brick Wall w/ stone leveling pad.

Section A-A

TEST PIT NO. TR-5



Mueser Rutledge Consulting Engineers

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TEST PIT LOG

TEST PIT NO. TP-5

FILE NO. 10758A

DATE 7/29/14

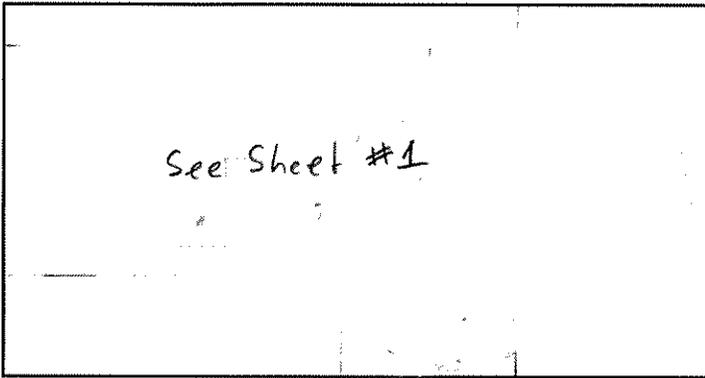
RES ENGR. B.GELK

PROJECT: 111 LEROY ST

LOCATION: NEW YORK, NY

TEST/INSP. EQUIPMENT _____

REF. CODES/STDS _____



NOTES

Sheet 2/2

- SEE previous log for notes & plan

Ground Surface Elevation 17 ±

Sample Depth	Description	Depth
0	Ground surface	0
0 - 1.0	2" Asphalt	1.0
1.0 - 3.0	Gray/Brown f-c sand, some gravel, cobbles, trace brick, stone, asphalt, silt (SP-SM) (FILL)	2.0
3.0 - 4.0	Brick Foundation wall w/ stone pad. 7.0' height	3.0
4.0 - 5.0		4.0
5.0 - 6.0	Brown Sandy silt (ML)	5.0
6.0 - 7.0	Red/Brown f-c sand, trace silt (SP-SM)	6.0
7.0 - 8.0		7.0
8.0 - 8.5	1' wide base	8.0

TEST PIT NO. TP-5



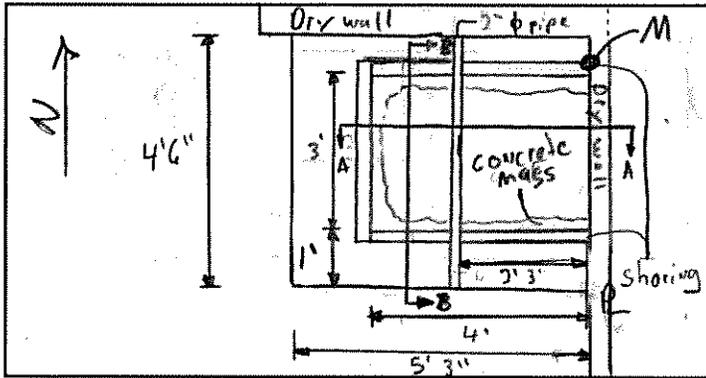
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TEST PIT LOG

PROJECT: 111 LEROY ST,
LOCATION: NEW YORK, NY
TEST/INSP. EQUIPMENT _____

TEST PIT NO. TP-6
FILE NO. 10758A
DATE 8/5/14
RES ENGR. B.GEH
REF. CODES/STDS _____



NOTES

Sheet 1/2

- Excavation - 1040 (8/5) - 1000 (8/13)
- Area of pit was deepened with to prevent dust from escaping area
- Jackhammer used for break slab & pit hand dug
- Soil became wet @ 17'
- Visited adjacent bldg. basement 11' deep
- Bar Hill - 1030 (8/13) - 1430 (9/13)
- Surface patched w/ quickcrete 8/13

Ground Surface Elevation 15 ±

Sample Depth	Description	Depth
0.0	ground surface	0.0
0.0 - 2.0	cast in place concrete wall	2.0
2.0 - 4.0	6" concrete	4.0
4.0 - 6.0	fine f-c sand, some gravel, stone, brick, trace cinders, metal, silt, (SP-SM) (FILL)	6.0
6.0 - 8.0	fine f-c sand, some gravel, stone, concrete, trace mica, brick, silt, metal (SP-SM) (FILL)	8.0
8.0 - 10.0		10.0
10.0 - 12.0	11" concrete mass	12.0
12.0 - 14.0	fine f-c sand, trace silt, gravel (SP-SM)	14.0
14.0 - 16.0		16.0
16.0 - 17.0		17.0
17.0 - 18.0		18.0

Section A - A

TEST PIT NO. TP-6



Mueser Rutledge Consulting Engineers

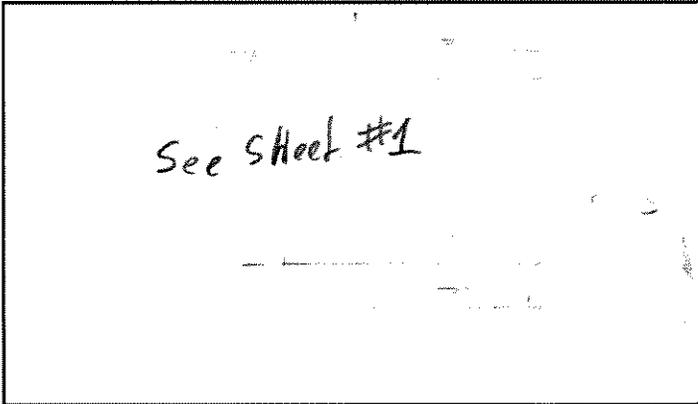
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TEST PIT LOG

Project 111 LEROY ST
Location New York, NY

File No. 10758A
Date 8/13/14
Test Pit No. TP-6
Res. Engr. B. GEHO

Sheet 2/2



NOTES

- SEE previous log for location plan & notes

Ground Surface Elevation 15±

Sample Depth	Description	Depth
	6" CONCRETE SLAB	
	Grey f-c sand, some gravel, stone, brick, trace clods, metal, silt (SP-SM) (FILL)	2.0
	Brown f-c sand, some gravel, stone, concrete, trace mica, brick, silt, metal (SP-SM) (FILL)	4.0
	11" CONCRETE MASS	6.0
	Polished concrete wall	8.0
	Brown f-c sand, trace silt, gravel (SP-SM)	10.0
		12.0
		14.0
		16.0
		18.0

TEST PIT NO. TP-6



Photo 1: Looking down west TP-1



Photo 2: Overview TP-1 looking west

111 Leroy Street	
Mueser Rutledge Consulting Engineers 225 West 34 th Street • New York, NY 10122	MRCE 10758A
Photo Nos. 1 & 2	FIGURE 1



Photo 3: Looking down west TP-2



Photo 4: Overview TP-2 looking down west

111 Leroy Street

Mueser Rutledge Consulting Engineers
225 West 34th Street • New York, NY 10122

MRC
10758A

Photo Nos. 3 & 4

FIGURE
2



Photo 5: Detail TP-3 looking down north



Photo 6: Overview TP-3 looking north

111 Leroy Street

Mueser Rutledge Consulting Engineers
225 West 34th Street • New York, NY 10122

MIRCE
10758A

Photo Nos. 5 & 6

FIGURE
3



Photo 7: Looking down west TP-3A

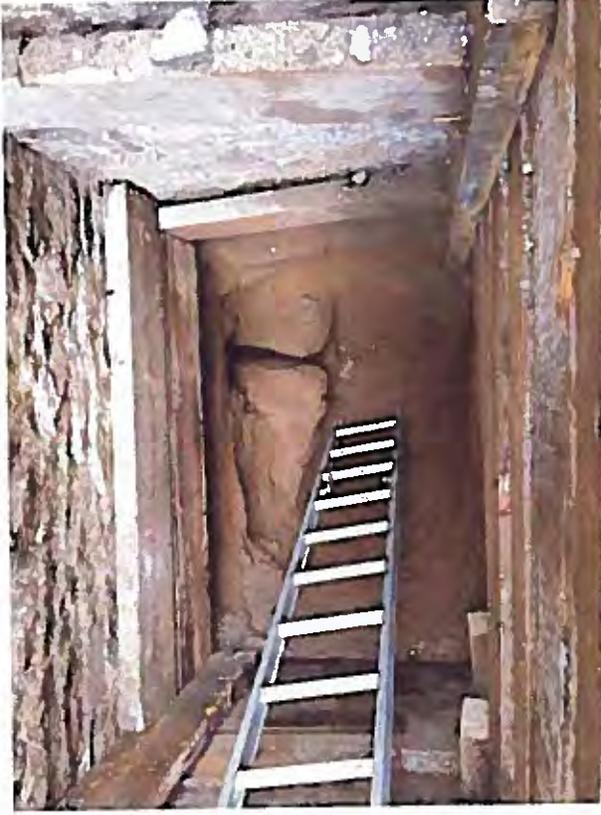


Photo 8: Detail TP-3A looking down west

111 Leroy Street

Mueser Rutledge Consulting Engineers
225 West 34th Street • New York, NY 10122

MIRCE
10758A

Photo Nos. 7 & 8

FIGURE
4



Photo 9: Overview TP-3A looking west

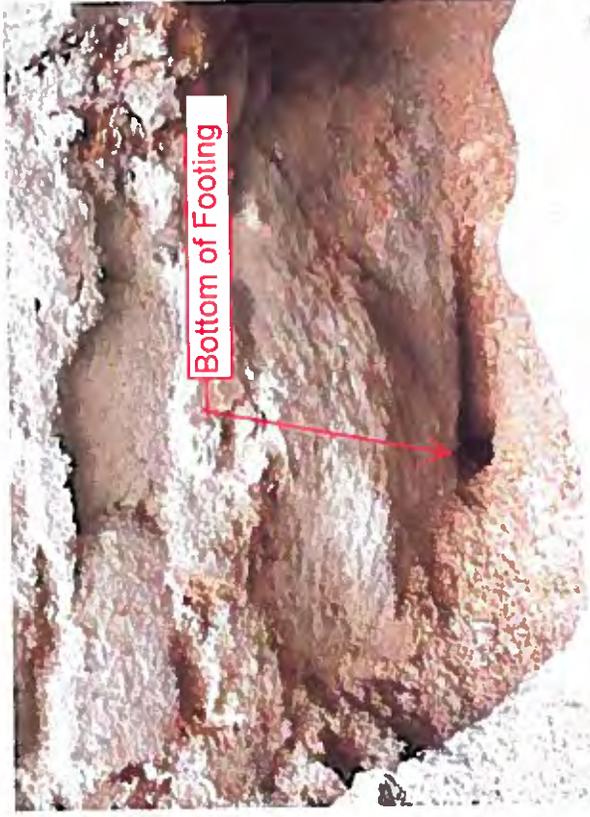


Photo 10: Looking down east TP-4

111 Leroy Street

Mueser Rutledge Consulting Engineers
225 West 34th Street • New York, NY 10122

MIRCE
10758A

Photo Nos. 9 & 10

FIGURE
5



Photo 11: Detail TP-4 looking down east



Photo 12: Overview TP-4 looking southeast

111 Leroy Street	
Mueser Rutledge Consulting Engineers 225 West 34 th Street • New York, NY 10122	MIRCE 10758A
Photo Nos. 11 & 12	FIGURE 6



Photo 13: Looking down east TP-5



Photo 14: Overview TP-5 looking northeast

111 Leroy Street	
Mueser Rutledge Consulting Engineers 225 West 34 th Street • New York, NY 10122	MIRCE 10758A
Photo Nos. 13 & 14	FIGURE 7

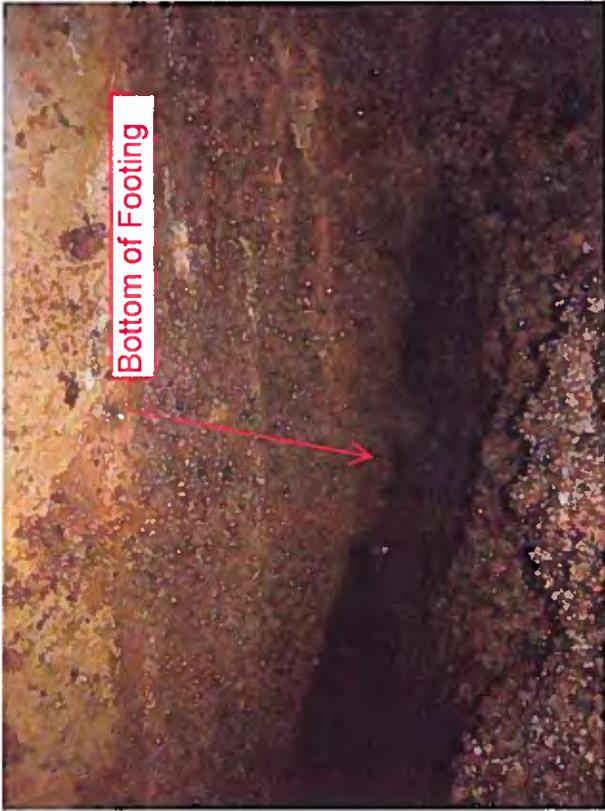


Photo 15: Looking down east TP-6

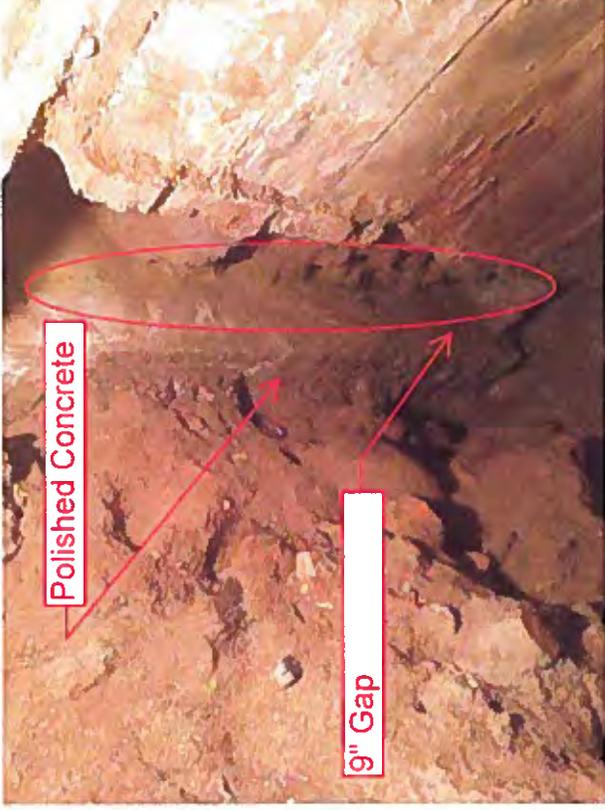


Photo 16: Gap detail looking northeast TP-6

111 Leroy Street	
Mueser Rutledge Consulting Engineers 225 West 34 th Street • New York, NY 10122	MRCE 10758A
Photo Nos. 15 & 16	FIGURE 8



Photo 17: Overview TP-6

111 Leroy St

Mueser Rutledge Consulting Engineers
225 West 34th Street • New York, NY 10122

MRCE
10758A

Photo Nos. 17

FIGURE
9

APPENDIX C

GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Property

111 Leroy Street
New York, New York 10014

NOVA PROJECT NUMBER

15-0856

DATED

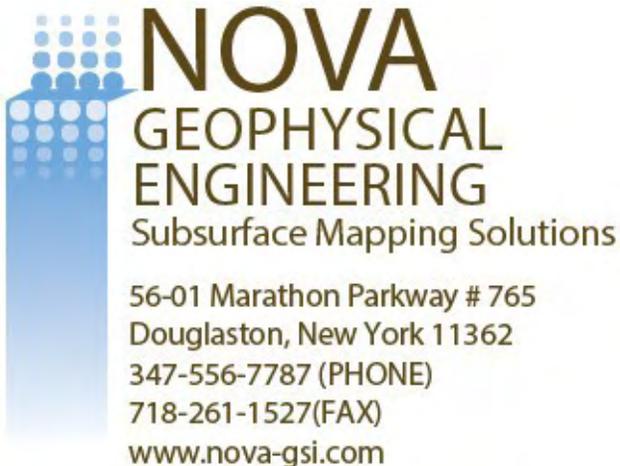
October 19, 2015

PREPARED FOR:

LANGAN

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

PREPARED BY:



NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS

56-01 Marathon Parkway, # 765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.nova-gsi.com

October 19, 2015

Patrick Farnham, LEED Green Associate
Senior Staff Engineer

LANGAN

21 Penn Plaza
360 West 31st Street, 8th Floor
New York, New York 10001
Direct: 212.479.5578

Re: Geophysical Engineering Survey (GES) Report
Commercial Property
111 Leroy Street
New York, New York 10014

Dear Mr. Farnham:

Nova Geophysical Services (NOVA) is pleased to provide findings of the geophysical engineering survey (GES) at the above referenced project site: Commercial Property, 111 Leroy Street, New York, New York (the "Site"). Please see attached Site Location and Geophysical Survey maps for more details.

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a Geophysical engineering surveys (GES) consisting of a Ground Penetrating Radar (GPR) survey at the site. The purpose of this survey is to locate and identify USTs, anomalies, utilities and other substructures and to clear and mark proposed environmental boring areas on October 12, 2015.

The equipment selected for this investigation was a Noggin 250 MHz ground penetrating radar (GPR) shielded antenna and DYNATEL Multi-Frequency Detector.

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

GEOPHYSICAL METHODS

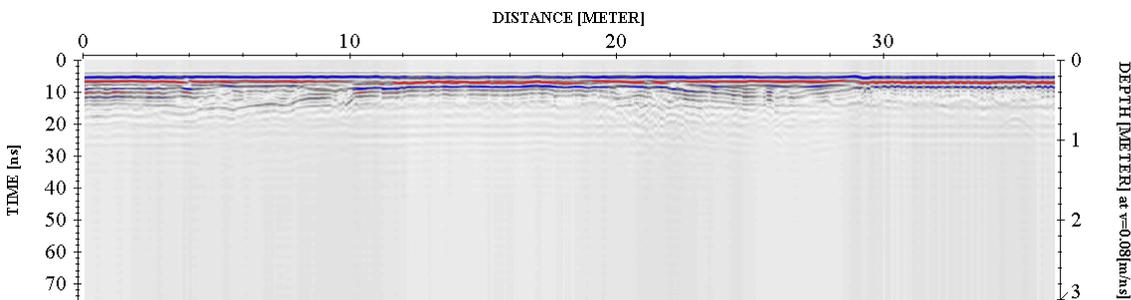
The project site was screened using the GPR to search the entire area and inspected for reflections, which could be indicative of rebar and utilities within the slab.

GPR data profiles were collected for the areas of the Site specified by the client. The surveyed areas consisted of asphalt and concrete surfaces.

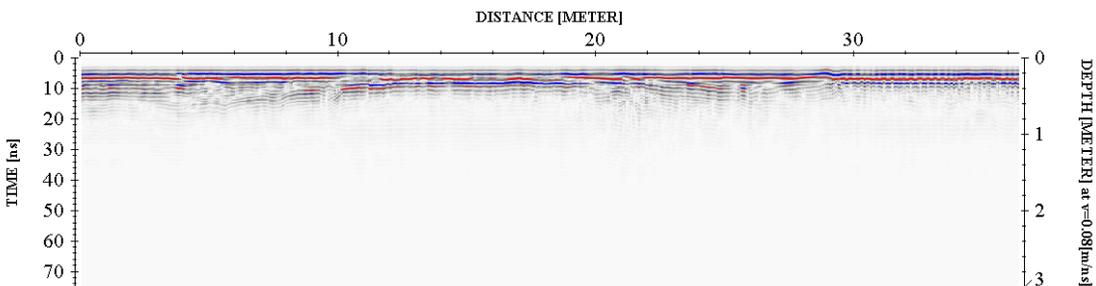
DATA PROCESSING

In order to improve the quality of the results and to better identify subsurface anomalies NOVA processed the collected data. The processes flow is briefly described at this section.

Step 1. Import raw RAMAC data to standard processing format



Step 2. Remove instrument noise (*dewow*)



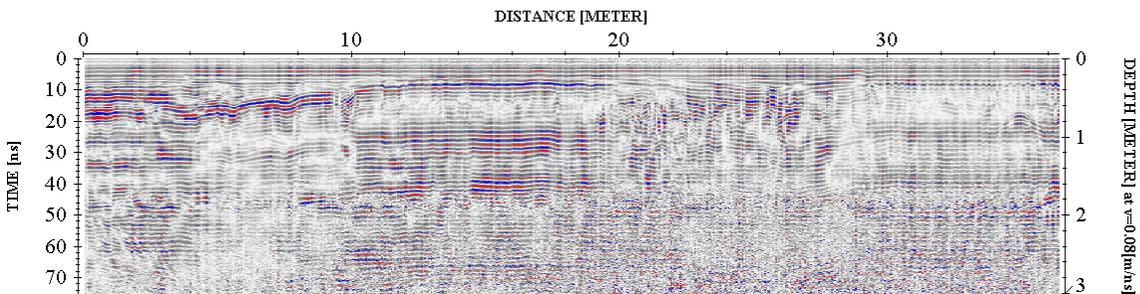
GEOPHYSICAL ENGINEERING SURVEY/GESREPORT

Commercial Property

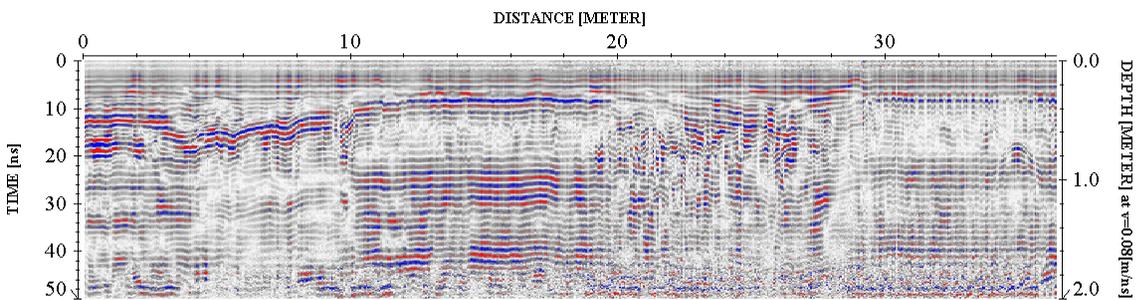
111 Leroy Street

New York, New York 10014

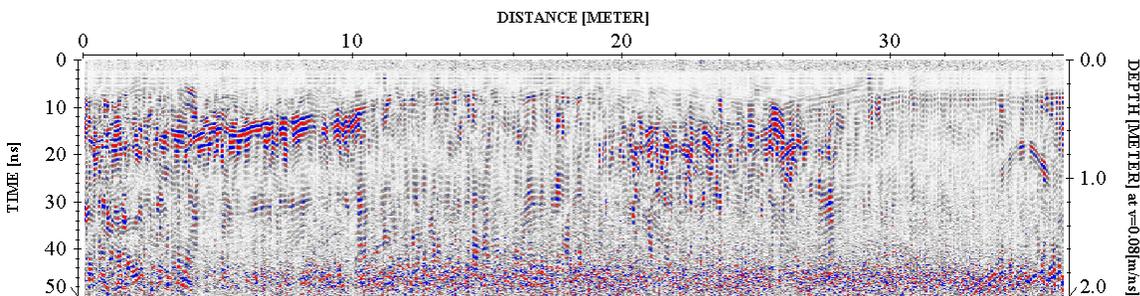
Step 3. Correct for attenuation losses (*energy decay function*)



Step 4. Remove static from bottom of profile (*time cut*)



Step 5. Mute horizontal ringing/noise (*subtracting average*)



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and describes the subsurface anomalies more accurately.

PHYSICAL SETTINGS

Nova observed following physical conditions at the time of the survey:

The weather: Overcast

Temp: 65 Degrees (F).

Surface: Asphalt and concrete surfaces

Geophysical Noise Level (GNL): Geophysical Noise Level (GNL) was medium to high at the site. The noise was a result of the site being located in an urban environment.

RESULTS

The results of the geophysical engineering survey (GES) identified following at the project Site:

- Two large anomalies, consistent with potential USTs, were located on the site. These are indicated both on the survey map and on-site.
- Several utilities (sewer, water, electric and gas) were located on the site. These were marked out both at the site and on the survey map (subsurface only).
- GES survey identified scattered anomalies located throughout the project site. Based on their rates and proximity, these anomalies were inconsistent with any USTs. These areas were indicated on the on-site markout.
- Geophysical Survey Plan portrays the areas investigated during the geophysical survey.

If you have any questions please do not hesitate to contact the undersigned.

Sincerely,

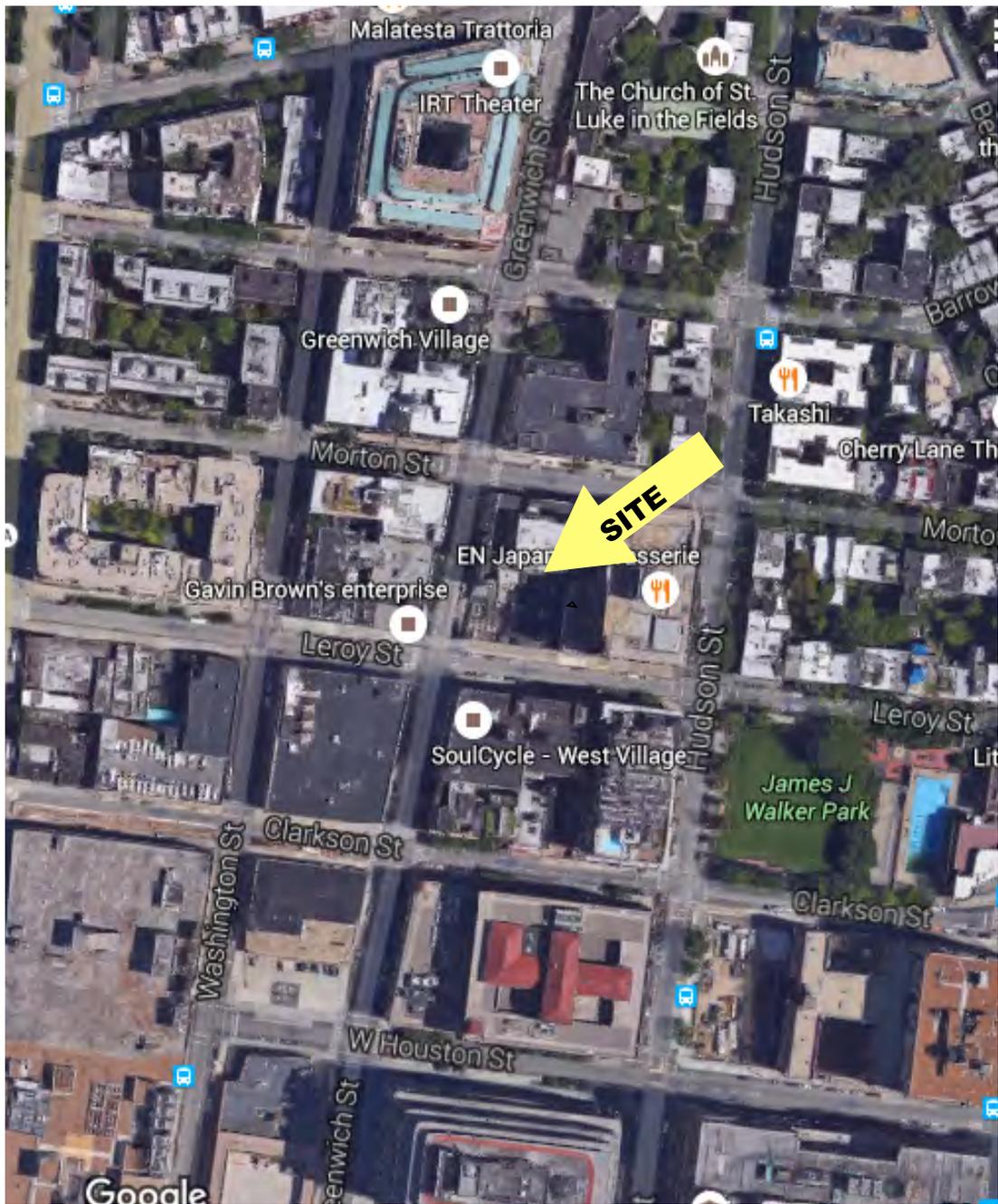
NOVA Geophysical Services



Levent Eskicakit, P.G., E.P.
Project Engineer

Attachments:

Figure 1 Site Location Map
Geophysical Survey Plan
Geophysical Images



200 ft.

FIGURE 1
SITE LOCATION MAP

NOVA
Geophysical Services

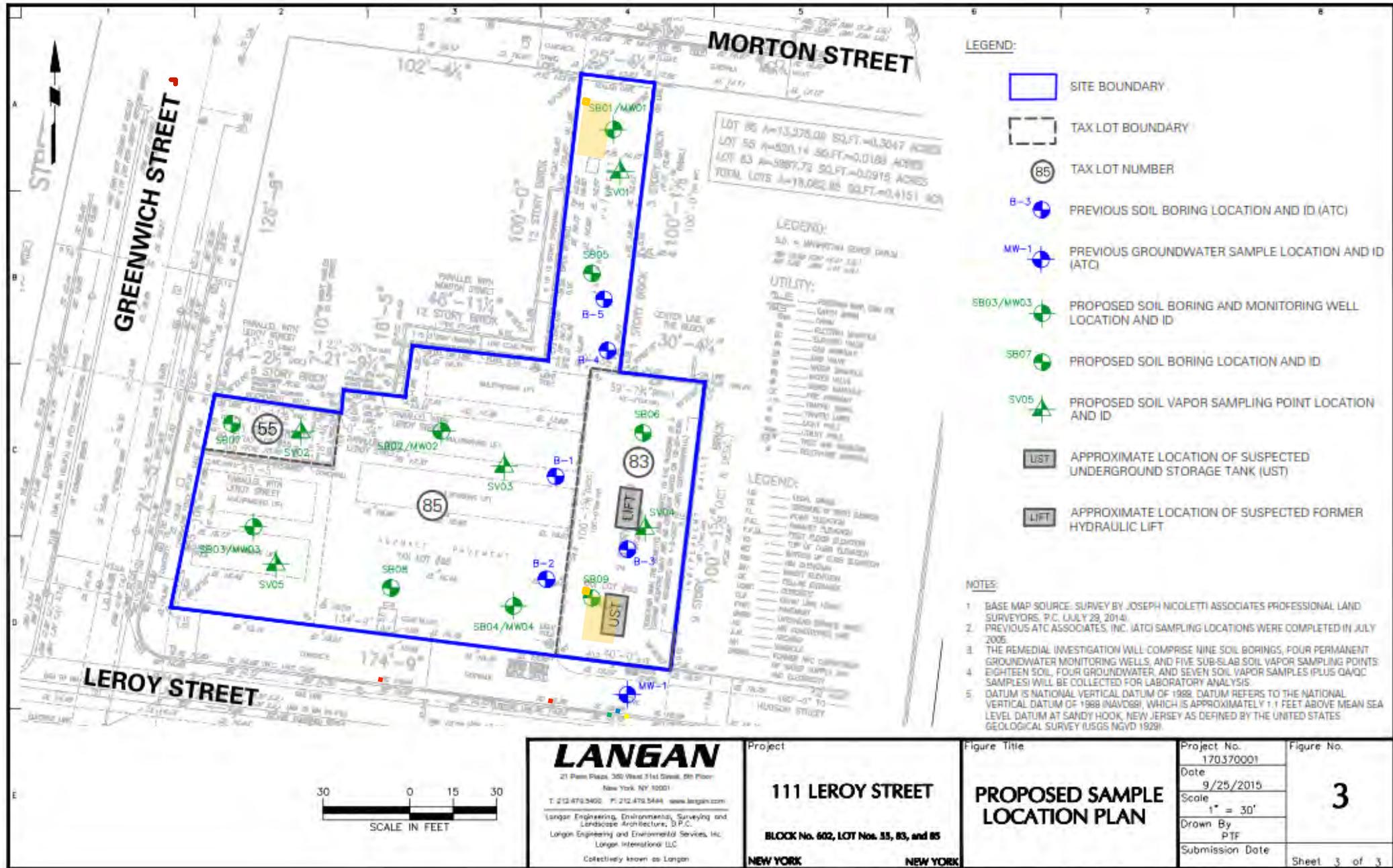
Subsurface Mapping Solutions

56-01 Marathon Pkwy, # 765, Douglaston, NY11362
(347) 556-7787 Fax (718) 261-1528

www.nova-gsi.com

SITE: Commercial Property
111 Leroy Street
New York, New York 10014

SCALE: See Map



1- All anomalies were marked in the field.

NOVA
Geophysical Services
 Subsurface Mapping Solutions
 56-01 Marathon Parkway, PO Box 765
 Douglaston, New York 11362
 Phone (347) 556-7787 * Fax (718) 261-1527
www.nova-gsi.com

GEOPHYSICAL SURVEY PLAN

SITE : Commercial Property
 111 Leroy Street
 New York, New York 10014

CLIENT: **LANGAN**
 DATE: October 12, 2015
 Scale See Map

 21 Penn Plaza, 300 West 31st Street, 8th Floor New York, NY 10001 T: 212 479 3400 F: 212 479 3444 www.langan.com Langan Engineering, Environmental, Surveying and Landscape Architecture, P.C. Langan Engineering and Environmental Services, Inc. Langan International LLC Collectively known as Langan	Project 111 LEROY STREET BLOCK No. 602, LOT Nos. 55, 83, and 85 NEW YORK NEW YORK	Figure Title PROPOSED SAMPLE LOCATION PLAN	Project No. 170370001	Figure No. 3
	Date 9/25/2015	Scale 1" = 30'	Drawn By PTF	Submission Date

- Survey Area
- Sewer Line
- Water Line

INFORMATION

- Electrical Line
- Gas Line
- Large Anomaly



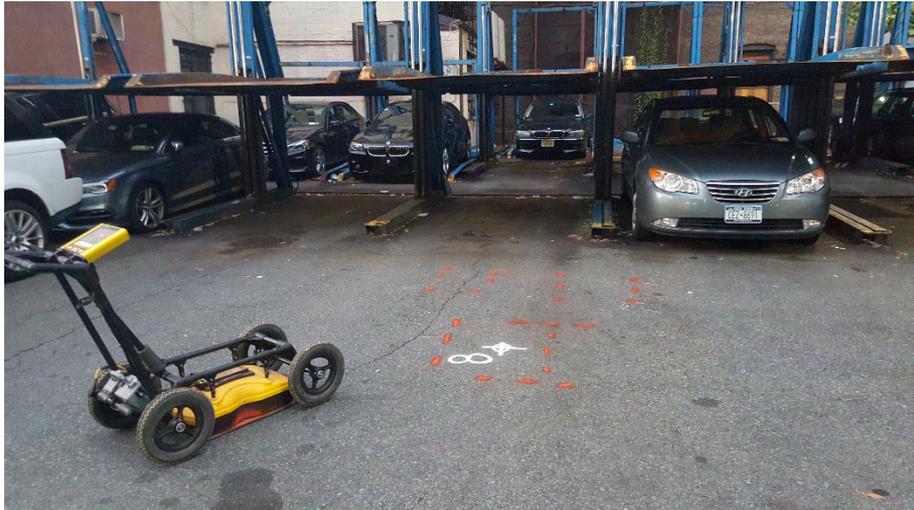
GEOPHYSICAL IMAGES

Commercial Property

111 Leroy Street

New York, New York 10014

October 12th, 2015



GEOPHYSICAL IMAGES

Commercial Property

111 Leroy Street

New York, New York 10014

October 12th, 2015



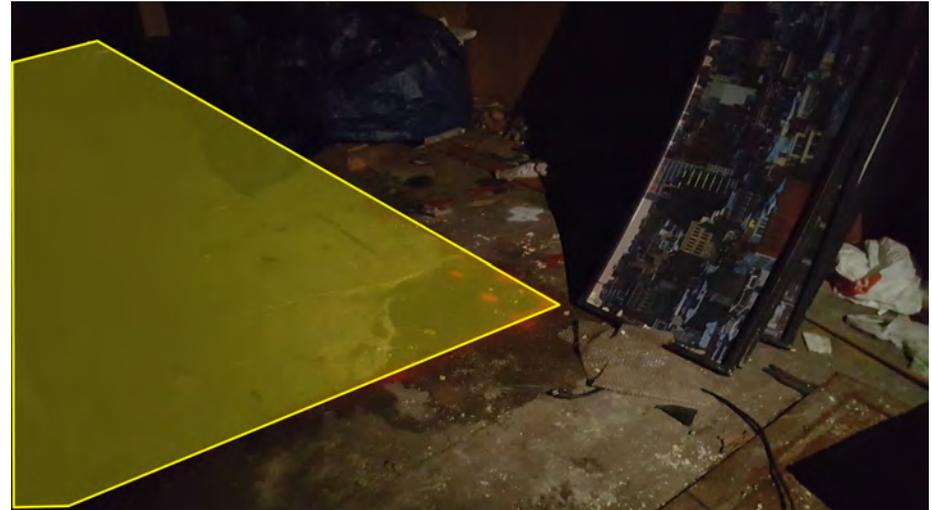
GEOPHYSICAL IMAGES

Commercial Property

111 Leroy Street

New York, New York 10014

October 12th, 2015



GEOPHYSICAL IMAGES

Commercial Property

111 Leroy Street

New York, New York 10014

October 12th, 2015



APPENDIX D
SOIL BORING LOGS

PROJECT <u>111 Leroy</u>			PROJECT NO. <u>170370001</u>		
LOCATION <u>NY, NY</u>			ELEVATION AND DATUM <u>N/A</u>		
DRILLING AGENCY <u>AARCO</u>			DATE STARTED <u>10/12/15</u>	DATE FINISHED <u>10/12/15</u>	
DRILLING EQUIPMENT <u>Geoprobe 7822DT</u>			COMPLETION DEPTH <u>24</u>	ROCK DEPTH <u>—</u>	
SIZE AND TYPE OF BIT <u>Direct Push</u>			NO. SAMPLES	DIST. <u>2</u>	UNDIST. <u>—</u> CORE <u>—</u>
CASING <u>—</u>			WATER LEVEL	FIRST <u>19</u>	COMPL. <u>—</u> 24 HR. <u>—</u>
CASING HAMMER	WEIGHT <u>—</u>	DROP <u>—</u>	FOREMAN <u>Tom Seickel</u>		
SAMPLER <u>4' Macrocore</u>			INSPECTOR <u>R. Tisherman</u>		
SAMPLER HAMMER	WEIGHT <u>—</u>	DROP <u>—</u>			

SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLOW/FT.	
0-2 asphalt	0				0.0	<p>MORISON 12' 14' SB01 ↑ N</p>
2-15 Brown m. SAND, trace brick, trace gravel (dry) [FILL]	1	R1	Macro	15/48	0.0	
	2				0.1	
0-8 Light brown medium SAND (moist) [FILL]	3				0.0	<p>8:10 Start drilling 8:15 SB01 - 0.2 collected 8:45 SB01 - 13.20 collected 9:00 EOB 24', install well to 26'</p>
8-10 rock	4	R2	Macro	10/48	0.0	
	5				0.0	
0-2 gray medium SAND, tr. gravel (moist) [FILL]	6				0.0	
2-5 Black medium SAND, tr. gravel (moist) [FILL]	7	R3	Macro	5/48	0.0	
	8				0.0	
0-20 Black medium SAND, some brick, some gravel (moist) [FILL]	9				0.0	
	10	R4	Macro	40/48	0.0	
	11				0.0	
	12				0.0	
	13				0.0	
20-23 Gray medium SAND, tr. gravel (moist) [FILL]	14				0.0	

FILL
NATIVE

PROJECT 111 Leroy St.			PROJECT NO. 170370001		
LOCATION NY, NY			ELEVATION AND DATUM —		
DRILLING AGENCY AARCO			DATE STARTED 10/13/15	DATE FINISHED 10/13/15	
DRILLING EQUIPMENT Geoprobe 7822DT			COMPLETION DEPTH 24	ROCK DEPTH —	
SIZE AND TYPE OF BIT Direct Push			NO. SAMPLES	DIST. 3	UNDIST. — CORE —
CASING —			WATER LEVEL	FIRST 20	COMPL. — 24 HR. —
CASING HAMMER	WEIGHT —	DROP —	FOREMAN Tom Seickel		
SAMPLER 4" Macro core			INSPECTOR R. Tisherman		
SAMPLER HAMMER	WEIGHT —	DROP —			

DEPTH SCALE	SAMPLE DESCRIPTION	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	REC. FT.	PENETR. RESIST. BLOW/FT.	
0-2	concrete				0.0	<p>12:35 start drilling 12:45 S802_0-2 12:55 S802_18-20 DUP01-10/13/15</p>
2-6	Black fine GRAVEL (dry) [FILL]				0.0	
6-7	Brown fine SAND (moist) [FILL]				0.0	
7-8	Coarse GRAVEL	R1	Macro	14/48	0.0	
8-14	Brown medium SAND, some black (moist) [FILL]				0.0	
0-10	Brown medium SAND, some black, trace light brown sand, trace gravel (moist) [FILL]				0.0	
10-12		R2	Macro	10/48	0.0	
12-13					0.0	
13-14					0.0	
0-28	Fine brown SAND, tr. mica (moist) [FILL]				0.0	
28-30					0.0	
30-32					0.0	
0-20	Brown medium SAND, tr. gravel, tr. mica (moist) [FILL]	R3	Macro	28/48	0.0	
20-22	Coarse gray GRAVEL (dry) [FILL]	R4	Macro	36/48	0.0	

LANGAN

JOB NO. 170370001 LOG OF BORING NO. SBO2
 DATE 10/13/15 SHEET 2 OF 2

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
	22-23 Pinkish gray med. SAND (dry)	15					
	23-26 Reddish brown med. SAND, tr. coarse gravel (moist) [FILL]	16					
	36.	16					
	0-13 Brown med. SAND, tr. brick, tr. gravel (moist) [FILL]	17				0.0	
FILL		17				0.0	
NATIVE	13-18 Reddish brown med. SAND (moist) [NATIVE]	18	R5	Moist	43/48	0.0	
		19					
		20					
	0-20 Reddish brown m SAND (wet)	20				0.0	
	20-48 Reddish brown fine silty SAND (wet)	21				2.0	
		22					
		23	R6	Moist	43/48	0.0	
		24					
							EOB 24' - Install MWD to 27'

PROJECT 111 Leray St.			PROJECT NO. 170370001		
LOCATION NY, NY			ELEVATION AND DATUM —		
DRILLING AGENCY AARCO			DATE STARTED 10/13/15	DATE FINISHED 10/13/15	
DRILLING EQUIPMENT Geoprobe 7822BT			COMPLETION DEPTH 20	ROCK DEPTH —	
SIZE AND TYPE OF BIT Direct Push			NO. SAMPLES	DIST. 2	UNDIST. — CORE —
CASING —			WATER LEVEL	FIRST 17	COMPL. — 24 HR. —
CASING HAMMER	WEIGHT —	DROP —	FOREMAN Tom Seickel		
SAMPLER 4' Macrocore			INSPECTOR R. Tisherman		
SAMPLER HAMMER	WEIGHT —	DROP —			

SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BUBBL.	
0-2 concrete					PID	<p>8:05 start drilling 8:15 SB03 - 0-2 8:30 SB03 - 16-17</p>
2-11 Black medium SAND, trace gravel (moist) [FILL]	1				0.0 0.0	
11-15 CONCRETE	2					
13-22 Brown m. silty SAND, trace gravel, trace brick (moist) [FILL]	3	R1	27/43	Macro		
22-25 BRICK	4				0.0	
25-27 Brown medium SAND, trace gravel, tr. brick	4				0.0	
0-11 Bron m. SAND, trace brick, tr. gravel (moist) [FILL]	5				0.0	
11-24 BRICK, trace brown medium SAND (dry) [FILL]	6	R2	24/43	Macro	0.0	
	7					
0-5 Brown medium SAND, trace brick trace gravel (moist) [FILL]	8				0.0	
5-7 Quartzite (moist) [FILL]	9				0.0	
7-9 Light brown medium SAND (moist) [FILL]	10	R3	21/43	Macro	0.0	
9-11 Reddish brown medium SAND (moist) [FILL]	11					
11-12 CONCRETE	12				0.0	
12-20 Gray m. SAND (moist) [FILL]	12				0.0	
20-31 Reddish brown c. GRAVEL (moist) [FILL]	13	R4	20/43	Macro	0.0 0.0	
	14					

LANGAN

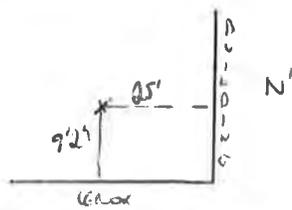
JOB NO. <u>17050001</u> DATE <u>10/13/15</u>	LOG OF BORING NO. SB03 SHEET <u>2</u> OF <u>2</u>
---	---

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES			REMARKS <small>(DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)</small>
			NO. LOC.	TYPE	RECOV. FT.	
	0-13 Brown medium SAND, some gravel, trace brick (mortar) (fill)	15			0.0	
	13-15 Schluff				0.0	
	15-17 Quartzite	16				
FILL	17-30 Reddish brown medium SAND (mortar) (NATIVE)	17			6.0	FW @ 17'
NATIVE	0-12 Brown medium SAND, trace gravel, trace wood (mortar) (fill)	18	RS	Macro	40/43	
	12-40 Reddish brown fine silty SAND (wet) (NATIVE)	19			0.0	
		20				EOL @ 20'

LANGAN

LOG OF BORING SB4 SHEET 1 OF 2

PROJECT <u>111 Leroy St.</u>			PROJECT NO <u>170370001</u>		
LOCATION <u>NY, NY</u>			ELEVATION AND DATUM <u> </u>		
DRILLING AGENCY <u>AARCO</u>			DATE STARTED <u>10/12/15</u>		DATE FINISHED <u>10/12/15</u>
DRILLING EQUIPMENT <u>Geoprobe 7822DT</u>			COMPLETION DEPTH <u>24</u>		ROCK DEPTH <u> </u>
SIZE AND TYPE OF BIT <u>Direct Push</u>			NO. SAMPLES	DIST. <u>2</u>	UNDIST. <u>-</u>
CASING <u> </u>			WATER LEVEL	FIRST <u>18</u>	COMPL. <u>-</u>
CASING HAMMER	WEIGHT <u>-</u>	DROP <u>-</u>	FOREMAN <u>Tom Seickel</u>		
SAMPLER <u>4' Macrocore</u>			LOGGED BY <u>R. Tisherman</u>		
SAMPLER HAMMER	WEIGHT <u>-</u>	DROP <u>-</u>			

DEPTH SCALE	SAMPLE DESCRIPTION	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLANK	
0-2	Concrete					 <p>13:10 Start drilling 13:15 SB04-0-2 13:30 SB04-16-18</p>
2-10	Brown m SAND, trace gravel and to. BRICK (moist) [FILL]			0.0		
10-12	BRICK			0.0		
		R1	Macro	12/48	0.0	
0-4	Light brown medium SAND, trace BRICK (moist) [FILL]			0.0		
4-10	BRICK			0.0		
		R2	Macro	10/48	0.0	
0-13	Light brown medium SAND, trace brick (moist) [FILL]			0.0		
		R3	Macro	13/48	0.0	
0-4	Light brown SAND, some coarse gravel [FILL] (moist)			0.0		
4-5	BRICK			0.0		
		R4	Macro	30/48	0.0	

JOB NO. 170370001 LOG OF BORING NO. SB4

DATE 10/12/15 SHEET 2 OF 2

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
	5-30 Reddish Brown SAND, some coarse SAND (moist) [FILL]	15				0.0 0.0	
	0-24 Brown med. SAND, trace gravel, tr. brick (moist) [FILL]	16 17				0.0 0.0	
FILL	24-48 Reddish Brown fine silty SAND, tr. mica (wet) [NATIVE]	18	R5	Macro	48/48		
NATIVE		19					
	0-48 Reddish Brown fine silty SAND (wet)	20	R6	Macro	48/48	0.0	
		21				0.0	
		22				0.0	
		23				0.0	
		24					EOB 24'

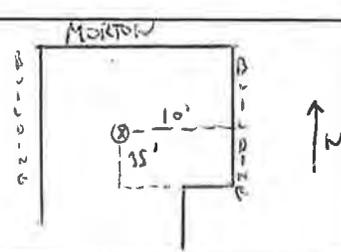
LANGAN

LOG OF BORING

SB05

SHEET 1 OF 2

PROJECT 111 Leroy St.			PROJECT NO. 170370001		
LOCATION NY, NY			ELEVATION AND DATUM		
DRILLING AGENCY AARCO			DATE STARTED 10/12/15		DATE FINISHED 10/12/15
DRILLING EQUIPMENT Geoprobe 7822DT			COMPLETION DEPTH 24		ROCK DEPTH —
SIZE AND TYPE OF BIT Direct Push			NO. SAMPLES	DIST. 2	UNDIST. —
CASING —			WATER LEVEL	FIRST 23	COMPL —
CASING HAMMER	WEIGHT —	DROP —	FOREMAN Tom Seickel		
SAMPLER 4' Macrocore			LOGGED BY Rebecca Tisherman		
SAMPLER HAMMER	WEIGHT —	DROP —			

DEPTH SCALE	SAMPLE DESCRIPTION	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENE. RESIST. BORING	
0-2	Asphalt					 <p>10:25 Start Drilling 10:30 SB05-0-2 11:00 SB05-21-23</p>
2-10	Black medium SAND, some gravel (dry) [FILL]			0.0		
10-24	Brown medium SAND, trace gravel, trace Brick (dry) [FILL]	R1	Macro	24/48	0.0	
0-10	light Brown medium SAND, some Brick (dry) [FILL]			0.0	0.0	
0-8	light Brown medium SAND, some brick (dry) [FILL]	R2	Macro	10/48	0.0	
8-25	Brown fine SAND, trace gravel (dry) [FILL]	R3	Macro	25/48	0.0	
0-10	Brown medium SAND, trace gravel, trace brick (moist) [FILL]	R4	Macro	33/48	0.0	

JOB NO. 170370001
 DATE 10/12/15

LOG OF BORING NO. ~~170370001~~ ⁵⁸⁰⁵

SHEET 2 OF 2

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
NATIVE	10-23 Pinkish Brown med. SAND, some coarse gravel (dry) [FILL]	15				0.0	
	23-33 Reddish Brown fine silty SAND, trace mica (moist) [FILL]	16				0.0	
	0-36 Reddish brown medium SAND, trace gravel, trace brick (moist) [FILL]	17				0.0	
		18				0.0	
	36-48 Reddish brown medium SAND (moist) [NATIVE]	19				0.0	
		20				0.0	
	0-36 Reddish brown medium SAND, trace brick, trace gypsum, trace gravel, (moist) [FILL]	21				0.0	
		22				0.0	
	36-48 Reddish brown fine SAND, trace silt (wet) [NATIVE]	23				0.0	GW @ 23'
		24				0.0	EOB 24'

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LOG OF BORING SB06 SHEET 1 OF 2

PROJECT 111 Leroy St.			PROJECT NO 170370001		
LOCATION New York, NY			ELEVATION AND DATUM		
DRILLING AGENCY AARCO			DATE STARTED 10/13/15		DATE FINISHED 10/13/15
DRILLING EQUIPMENT Geoprobe			COMPLETION DEPTH 20		ROCK DEPTH -
SIZE AND TYPE OF BIT Direct Push			NO. SAMPLES	DIST. 2	UNDIST. -
CASING -			WATER LEVEL	FIRST 19	COMPL. -
CASING HAMMER	WEIGHT -	DROP -	FOREMAN Tom Seickel		
SAMPLER 4' Macrocore			LOGGED BY B. Tisherman		
SAMPLER HAMMER	WEIGHT -	DROP -			

DEPTH SCALE	SAMPLE DESCRIPTION	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLUG IN.	
0-2	Concrete				0.0	<p>10:42 Start Drilling 10:55 SB06-0-2 11:10 SB06-17-19</p>
2-6	Brown medium SAND, trace gravel, trace brick (moist) [FILL]				0.0	
6-10	Black gravel [FILL]				0.0	
10-19	Brown medium SAND, some brick, trace gravel (moist) [FILL]	R1	Macro	14/48		
0-4	Concrete				0.0	
4-24	Brown medium SAND, some brick, trace gravel (moist) [FILL]				0.0	
6-24	Brown medium SAND, some brick, trace gravel (moist) [FILL]	R2	Macro	24/48	0.0	
0-2	Concrete				0.0	
2-7	Brown medium SAND, trace brick, trace gravel (moist) [FILL]				0.0	
7-14	BRICK	R3	Macro	16/48		
14-16	Brown medium SAND, some gravel, trace brick (moist) [FILL]				0.0	
0-4	Brown medium SAND, some brick, trace gravel (moist) [FILL]	R4	Macro	28/48		

JOB NO. 170370001
 DATE 10/13/15

LOG OF BORING NO. SBO6

SHEET 2 OF 2

DEPTH SCALE	SAMPLE DESCRIPTION	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	REC. FT.	PENETR. RESIST. BL/6 IN.	
0-4	BRICK, trace gravel (moist)					
4-10	[FILL]					
10-12	CONCRETE					
12-24	Reddish Brown medium SAND (moist)				0.0	
24-26	CONCRETE					
26-28	Brown medium SAND, trace gravel (moist)				6.0	
28-30	[FILL]					
30-32	Brown medium SAND, trace BRICK, trace gravel (moist)				6.0	
32-34	[FILL]					
34-36	Reddish brown medium SAND (moist) (NATIVE)					
36-48	Reddish Brown fine silty SAND (wet) (NATIVE)					
48-50		25	Macro	48/48	6.0	
50-52						EOB 20'

PROJECT 111 Leroy St			PROJECT NO. 170370001		
LOCATION NY, NY			ELEVATION AND DATUM		
DRILLING AGENCY AARCO			DATE STARTED 10/13/15	DATE FINISHED 10/13/15	
DRILLING EQUIPMENT Geoprobe 7822DT			COMPLETION DEPTH 20	ROCK DEPTH	
SIZE AND TYPE OF BIT Direct Push			NO. SAMPLES	DIST. 2	UNDIST. CORE
CASING			WATER LEVEL	FIRST 19	COMPL. 24 HR.
CASING HAMMER	WEIGHT	DROP	FOREMAN Tom Seckel		
SAMPLER 4" Macrocore			INSPECTOR R. Tisherman		
SAMPLER HAMMER	WEIGHT	DROP			

DEPTH SCALE	SAMPLE DESCRIPTION	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	REC. FT.	PENETR. RESIST. BLG in.	
0-6	Brown medium SAND, some brick (dry) [Fill]				0.0	<p>7:28 Start drilling 7:40 No recovery 4-8' 7:45 SB07-0-2 8:06 SB07-17-19</p>
1					0.0	
2		R1	Macro	6/48		
3						
4	NO RECOVERY					
5						
6		R2	Macro	0/48		
7						
8					0.0	
9	0-15 Brown med. SAND, trace gravel, trace silt, (moist) [Fill]				0.0	
10		R3	Macro	15/48		
11						
12					0.0	
13	0-6 Brown m. SAND, trace brick, trace gravel (moist) [Fill]	R4	Macro	14/48	0.0	
14					0.0	

JOB NO. 170370001
 DATE 10/13/18

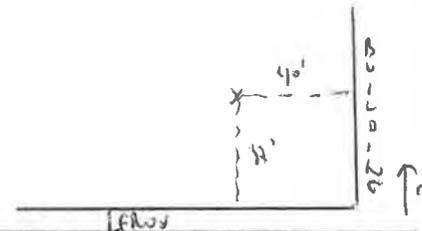
LOG OF BORING NO. S37

SHEET 2 OF 2

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
	6-14 CONCRETE	15					
Fill NATIVE	0-4 Brown medium SAND, tr. gravel, tr. brick (natl) [FILL]	16				0.0	
	4-6 COARSE GRAVEL (natl) [FILL]	17				0.0	
	6-57 Reddish brown medium SAND (natl) [NATIVE] (wet @ 19')	18	RS	Moss	57/18	0.0	
		19					FW @ 19'
		20					EOB 20'

PROJECT 111 Leary St.			PROJECT NO. 170370001		
LOCATION NY, NY			ELEVATION AND DATUM -		
DRILLING AGENCY AARCO			DATE STARTED 10/12/15	DATE FINISHED 10/12/15	
DRILLING EQUIPMENT Geoprobe 7822DT			COMPLETION DEPTH 20	ROCK DEPTH -	
SIZE AND TYPE OF BIT Direct Push			NO. SAMPLES	DIST. 2	UNDIST. - CORE -
CASING -			WATER LEVEL	FIRST 18	COMPL. - 24 HR. -
CASING HAMMER	WEIGHT -	DROP -	FOREMAN Tom Setkel		
SAMPLER 4' Macrocore			INSPECTOR R. Tisherman		
SAMPLER HAMMER	WEIGHT -	DROP -			

SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	REC. FT.	REMARKS RESIST DEPTH	
0-3 CONCRETE					0.0	
3-26 Black medium SAND, some gravel (dry) [FILL]	1				0.0	
26-30 Gray medium GRAVEL (dry) [FILL]	2	R1	Macro	36/48	0.0	
30-33 CONCRETE	3				0.0	
33-36 Black medium SAND, some gravel (dry) [FILL]	4				0.0	
0-8 Brown medium silty SAND trace gravel; trace brick (dry) [FILL]	5				0.0	
8-15 Light brown medium SAND, trace gravel (med) [FILL]	6	R2	Macro	30/48	0.0	
15-20 BRICK	7				0.0	
0-18 Brown medium SAND, some black medium gravel, trace brick (med) [FILL]	9				0.0	
	10				0.0	
	11				0.0	
	12				0.0	
0-8 Brown medium SAND, trace gravel, trace brick (med) [FILL]	13	R4	Macro	52/48	0.0	
8-10 Gray medium GRAVEL [FILL]	14				0.0	



12:20 start drilling
 12:30 S308 - 0-2 collected
 12:40 Refusal @ 15', move boring 5' North and start R3
 12:47 R3 done
 13:05 S308 - 16-18 collected

JOB NO. 17050001 LOG OF BORING NO. S1308
 DATE 10/12/15 SHEET 2 OF 2

DEPTH SCALE	SAMPLE DESCRIPTION	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
15	10-57 Reddish brown mediu SAND (moist) [NATIVE] (LT) [FILL]					
16						
17	0-24 Brown mediu silty SAND, trace gravel, trace brick (moist) [FILL]				0.0	
18	24-48 Reddish brown mediu SAND (moist) [NATIVE]	R5	Macro	48/48	0.0	
19					5.0	
20					0.0	



FILL
NATIVE

PROJECT 111 Leroy St.			PROJECT NO. 170370001			
LOCATION NY, NY			ELEVATION AND DATUM —			
DRILLING AGENCY AARCO			DATE STARTED 10/12/15		DATE FINISHED 10/12/15	
DRILLING EQUIPMENT Geoprobe 7822DT			COMPLETION DEPTH 20		ROCK DEPTH —	
SIZE AND TYPE OF BIT Direct Push			NO. SAMPLES		DIST. 2 UNDIST. — CORE —	
CASING —			WATER LEVEL FIRST 19		COMPL. — 24 HR. —	
CASING HAMMER		WEIGHT —	FOREMAN Tom Seckel			
SAMPLER 4" Macrocore		DROP —	INSPECTOR R. Tisherman			
SAMPLER HAMMER		WEIGHT —	DROP —			

SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLOW/FT.	
0-5 CONCRETE	0					<p>7'9"</p> <p>LEROY</p> <p>11:50 start drilling 12:00 S309-D-2 collected 12:15 S309-17-19 collected</p>
5-16 Brown med. SAND, trace brick, trace gravel (dry) [fill]	1				0.0	
16-18 CONCRETE	2	R1	Macro	36/48	0.0	
18-20 Gray med. SAND, some gravel (dry) [fill]	3				0.0	
20-22 CONCRETE	4				0.0	
22-26 Brown m. SAND, some gravel, tr. brick, tr. concrete (dry) [fill]	5				0.0	
0-15 Brown m. SAND, some silt, tr. gravel (moist) [fill]	6	R2	Macro	38/48	0.0	
15-17 BRICK	7				0.0	
17-21 ASPHALT	8				0.0	
21-23 BRICK	9				0.0	
0-8 Dark brown med. SAND, some silt, tr. brick, tr. gravel (moist) [fill]	10	R3	Macro	36/48	0.0	
8-12 Purple brown fine SAND, some brick, trace gravel (moist) [fill]	11				0.0	
12-30 Brown med. SAND, some brick, trace gravel (moist) [fill]	12				0.0	
0-10 Brown m. SAND, some brick, tr. gravel (moist) [fill]	13	R4	Macro	40/48	0.0	
10-15 crushed QUARTZITE	14				0.0	

JOB NO. 170570001

LOG OF BORING NO. S1809

DATE _____

SHEET 2 OF 2

DEPTH SCALE	SAMPLE DESCRIPTION	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
15	13-40 Reddin bow medin SAND, some coarse SAND (native)				0.0	
16					0.0	
17	0-12 Brown medin SAND, tr. brckly tr. gravel (nat) [FILL]				0.0	
18	12-42 Reddin bow m SAND, fine coarse sand (native) [NATIVE] w/ @ 19	RS	Macro	42/42	0.0	
19					0.0	GW @ 19'
20						End 20'

PROJECT 111 Leroy St.			PROJECT NO. 170370001			
LOCATION NY, NY			ELEVATION AND DATUM			
DRILLING AGENCY AARCO			DATE STARTED 10/12/15		DATE FINISHED 10/12/15	
DRILLING EQUIPMENT Geoprobe 7822DT			COMPLETION DEPTH 20		ROCK DEPTH -	
SIZE AND TYPE OF BIT Direct Push			NO. SAMPLES	DIST. 3	UNDIST. -	CORE -
CASING			WATER LEVEL FIRST 20		COMPL. - 24 HR. -	
CASING HAMMER		WEIGHT -	DROP -	FOREMAN Tom Seickel		
SAMPLER 4" Macro core			INSPECTOR R. Tisherna			
SAMPLER HAMMER		WEIGHT -	DROP -			

DEPTH SCALE	SAMPLE DESCRIPTION	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	REC. FT.	PENETR. RESIST. BEARING.	
0-11	Brown medln SAND, some concrete, trace gravel (dry) [Fill]				0.0	
11-15	BRICK	R1	Macro	13/48		
0-3	brn medln SAND, trace c. gravel (moist) [Fill]				0.0	11:20 start drilling 11:30 SB10-0-2 11:45 SB10-12-14 11:55 SB10-17-19
3-5	BRICK					
5-6	Grayish brn m. SAND (moist) [Fill]	R2	Macro	16/48		
6-16	BRICK					
0-11	Grayish brn m. SAND, trace gravel, some brick (moist) [Fill]				0.0	
11-13	BRICK	R3	Macro	15/48		
13-15	Gray m. SAND, tr. gypsum (moist) [Fill]					
0-8	BRICK, some medln brn SAND				0.0	
8-10	Light brown m. SAND (moist) [Fill]	R4	Macro	36/48	10.1	
					333	
					10.3	

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LOG OF BORING NO. S310

JOB NO. 17070001

DATE 10/12/11

SHEET 2 OF 2

SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
10-20 Black m. SAND, tr. brick, tr. gravel (mort) [FILL] staining HK odor	15				0.0 0.0 0.0	EOL 20'
20-28 Reddish brown m SAND (mort) [FILL]	16				0.0	
0-5 Brown m SAND trace brick, trace gravel (mort) [FILL]	17				10.2 0.0	
5-6 Brown f. SAND (mort) HK odor staining	18	PS	M200	10/48	0.0 0.0	
6-7 CONCRETE	19				0.0	
7-8 Brown f. SAND (mort) [FILL]					0.0	
8-36 Brown m. SAND, some brick, trace gravel (mort) [FILL]	20					
36-48 Reddish brown m SAND (wet) [NATIVE]						

FILL MARK

APPENDIX E
MONITORING WELL CONSTRUCTION LOGS

WELL CONSTRUCTION SUMMARY

Well No. MW01

PROJECT 111 Leroy Street			PROJECT NO. 170370001				
LOCATION New York, New York			ELEVATION AND DATUM N/A (not surveyed)				
DRILLING AGENCY AARCO Environmental Services			DATE STARTED 10/12/2015		DATE FINISHED 10/12/2015		
DRILLING EQUIPMENT Geoprobe® 7822DT Track-Mounted Drill Rig			DRILLER Tom Seickel				
SIZE AND TYPE OF BIT 4-inch OD, 5-foot long steel macrocore			INSPECTOR Rebecca Tisherman				
METHOD OF INSTALLATION AARCO drilled through an approx. 6-inch asphalt slab at boring location. Two-inch diameter boring SB01 was continuously sampled to 24 feet below grade. AARCO then advanced a four-inch anchored macrocore to 26 feet bgs to install 2-inch I.D. schedule 40 PVC well. The annulus above the well screen was filled with #2 filter sand to approx. 15 feet below grade surface and hydrated bentonite was installed from 13 feet to 15 feet below grade surface. Soil cuttings and clean sand were then used as backfill to 1 foot bgs and grout was installed from 0.5 to 1 foot bgs. The well was completed with a flush-mounted 6-inch diameter road box and set in cold-patch asphalt.							
METHOD OF WELL DEVELOPMENT Monsoon pump with dedicated tubing and a surge block were used to develop about 10-gal of silty water.							
TYPE OF CASING PVC Sch 40		DIAMETER 2-in ID	TYPE OF BACKFILL MATERIAL Soil Cuttings/Clean Sand				
TYPE OF SCREEN 0.020-inch slotted PVC Sch 40		DIAMETER 2-in ID	TYPE OF SEAL MATERIAL Hydrated 30-50 mesh bentonite chip				
BOREHOLE DIAMETER 4 inches			TYPE OF FILTER MATERIAL #2 Sand				
TOP OF CASING	ELEVATION	DEPTH (ft)	WELL DETAILS		SUMMARY SOIL CLASSIFICATION	DEPTH (FT)	
-	-	0.5					
TOP OF SEAL	ELEVATION	DEPTH (ft)			Asphalt to about 0.5 ft	0.5	
-	-	13			Historic fill to about 13.5 ft	1.0	
TOP OF FILTER	ELEVATION	DEPTH (ft)					
-	-	15					
TOP OF SCREEN	ELEVATION	DEPTH (ft)					
-	-	16					
BOTTOM OF BORING	ELEVATION	DEPTH (ft)					
-	-	26					
SCREEN LENGTH	10 ft						
SLOT SIZE	0.02 Inches						
GROUNDWATER ELEVATIONS							
ELEVATION	DATE	DEPTH TO WATER					
-	10/14/2015	18.85					
ELEVATION	DATE	DEPTH TO WATER					
	10/20/2015	18.85					
ELEVATION	DATE	DEPTH TO WATER					
ELEVATION	DATE	DEPTH TO WATER					
ELEVATION	DATE	DEPTH TO WATER					
ELEVATION	DATE	DEPTH TO WATER					
ELEVATION	DATE	DEPTH TO WATER					
LANGAN Engineering and Environmental Services, Inc. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727							

WELL CONSTRUCTION SUMMARY

Well No. MW02

PROJECT 111 Leroy Street			PROJECT NO. 170370001		
LOCATION New York, New York			ELEVATION AND DATUM N/A (not surveyed)		
DRILLING AGENCY AARCO Environmental Services			DATE STARTED 10/13/2015		DATE FINISHED 10/13/2015
DRILLING EQUIPMENT Geoprobe® 7822DT Track-Mounted Drill Rig			DRILLER Tom Seickel		
SIZE AND TYPE OF BIT 4-inch OD, 5-foot long steel macrocore			INSPECTOR Rebecca Tisherman		
METHOD OF INSTALLATION AARCO drilled through an approx. 6-inch asphalt slab at boring location. Two-inch diameter boring SB02 was continuously sampled to 24 feet below grade. AARCO then advanced a four-inch anchored macrocore to 27 feet bgs to install 2-inch I.D. schedule 40 PVC well. The annulus above the well screen was filled with #2 filter sand to approx. 16 feet below grade surface and hydrated bentonite installed from 14 feet to 16 feet below grade surface. Soil cuttings and clean sand were then used as backfill to 1 foot bgs and grout was installed from 0.5 to 1 foot bgs. The well was completed with a flush-mounted 6-inch diameter road box and set in cold-patch asphalt.					
METHOD OF WELL DEVELOPMENT Monsoon pump with dedicated tubing and a surge block were used to develop about 10-gal of silty water.					
TYPE OF CASING PVC Sch 40		DIAMETER 2-in ID	TYPE OF BACKFILL MATERIAL Soil Cuttings/Clean Sand		
TYPE OF SCREEN 0.020-inch slotted PVC Sch 40		DIAMETER 2-in ID	TYPE OF SEAL MATERIAL Hydrated 30-50 mesh bentonite chip		
BOREHOLE DIAMETER 4 inches			TYPE OF FILTER MATERIAL #2 sand		
TOP OF CASING	ELEVATION	DEPTH (ft)			DEPTH (FT)
	-	0.5			
TOP OF SEAL	ELEVATION	DEPTH (ft)			
	-	14			
TOP OF FILTER	ELEVATION	DEPTH (ft)			
	-	16			
TOP OF SCREEN	ELEVATION	DEPTH (ft)			
	-	17			
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	Historic fill to about 17 ft		17.0
	-	27			
SCREEN LENGTH 10 ft			#2 Sand Pack		14.0
SLOT SIZE 0.02 Inches					
GROUNDWATER ELEVATIONS					
ELEVATION	DATE	DEPTH TO WATER	Native soil below about 17 ft		27.0
-	10/14/2015	19.94			
ELEVATION	DATE	DEPTH TO WATER			
	10/20/2015	19.91			
ELEVATION	DATE	DEPTH TO WATER			
ELEVATION	DATE	DEPTH TO WATER	Native soil below about 17 ft		27.0
ELEVATION	DATE	DEPTH TO WATER			
ELEVATION	DATE	DEPTH TO WATER			
LANGAN Engineering and Environmental Services, Inc.					
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727					

WELL CONSTRUCTION SUMMARY

Well No. MW03

PROJECT 111 Leroy Street			PROJECT NO. 170370001					
LOCATION New York, New York			ELEVATION AND DATUM N/A (not surveyed)					
DRILLING AGENCY AARCO Environmental Services			DATE STARTED 10/13/2015		DATE FINISHED 10/13/2015			
DRILLING EQUIPMENT Geoprobe® 7822DT Track-Mounted Drill Rig			DRILLER Tom Seickel					
SIZE AND TYPE OF BIT 4-inch OD, 5-foot long steel macrocore			INSPECTOR Rebecca Tisherman					
METHOD OF INSTALLATION AARCO drilled through an approx. 6-inch asphalt slab at boring location. Two-inch diameter boring SB03 was continuously sampled to 20 feet below grade. AARCO then advanced a four-inch anchored macrocore to 24 feet bgs to install 2-inch I.D. schedule 40 PVC well. The annulus above the well screen was filled with #2 filter sand to approx. 13 feet below grade surface and hydrated bentonite installed from 11 feet to 13 feet below grade surface. Soil cuttings and clean sand were then used as backfill to 1 foot bgs and grout was installed from 0.5 to 1 foot bgs. The well was completed with a flush-mounted 6-inch diameter road box and set in cold-patch asphalt.								
METHOD OF WELL DEVELOPMENT Monsoon pump with dedicated tubing and a surge block were used to develop about 15-gal of silty water.								
TYPE OF CASING PVC Sch 40		DIAMETER 2-in ID	TYPE OF BACKFILL MATERIAL Soil Cuttings/Clean Sand					
TYPE OF SCREEN 0.020-inch slotted PVC Sch 40		DIAMETER 2-in ID	TYPE OF SEAL MATERIAL Hydrated 30-50 mesh bentonite chip					
BOREHOLE DIAMETER 4 inches			TYPE OF FILTER MATERIAL #2 sand					
TOP OF CASING	ELEVATION	DEPTH (ft)	WELL DETAILS		SUMMARY SOIL CLASSIFICATION	DEPTH (FT)		
-	-	0						
TOP OF SEAL	ELEVATION	DEPTH (ft)			Asphalt to about 0.2 ft Historic fill to about 17 ft Native soil below about 17 ft	0.5		
-	-	11				1.0		
TOP OF FILTER	ELEVATION	DEPTH (ft)				-	-	13
-	-	13				-	-	14
TOP OF SCREEN	ELEVATION	DEPTH (ft)				-	-	14
-	-	14				-	-	24
BOTTOM OF BORING	ELEVATION	DEPTH (ft)				-	-	24
-	-	24				-	-	24
SCREEN LENGTH 10 ft						-	-	11.0
SLOT SIZE 0.02 Inches						-	-	13.0
GROUNDWATER ELEVATIONS			-	-	14.0			
ELEVATION	DATE	DEPTH TO WATER	-	-	16.92			
-	10/14/2015	16.92	-	-	16.98			
ELEVATION	DATE	DEPTH TO WATER	-	-	16.98			
-	10/20/2015	16.98	-	-	-			
ELEVATION	DATE	DEPTH TO WATER	-	-	-			
-	-	-	-	-	-			
ELEVATION	DATE	DEPTH TO WATER	-	-	-			
-	-	-	-	-	-			
ELEVATION	DATE	DEPTH TO WATER	-	-	-			
-	-	-	-	-	-			
ELEVATION	DATE	DEPTH TO WATER	-	-	-			
-	-	-	-	-	-			
LANGAN Engineering, Environmental, Surveying, and Landscape Architecture, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001								

WELL CONSTRUCTION SUMMARY

Well No. MW04

PROJECT 111 Leroy Street			PROJECT NO. 170370001			
LOCATION New York, New York			ELEVATION AND DATUM N/A (not surveyed)			
DRILLING AGENCY AARCO Environmental Services			DATE STARTED 10/12/2015		DATE FINISHED 10/12/2015	
DRILLING EQUIPMENT Geoprobe® 7822DT Track-Mounted Drill Rig			DRILLER Tom Seickel			
SIZE AND TYPE OF BIT 4-inch OD, 5-foot long steel macrocore			INSPECTOR Rebecca Tisherman			
METHOD OF INSTALLATION AARCO drilled through an approx. 6-inch asphalt slab at boring location. Two-inch diameter boring SB04 was continuously sampled to 24 feet below grade. AARCO then advanced a four-inch anchored macrocore to 24 feet bgs to install 2-inch I.D. schedule 40 PVC well. The annulus above the well screen was filled with #2 filter sand to approx. 13 feet below grade surface and hydrated bentonite installed from 11 feet to 13 feet below grade surface. Soil cuttings and clean sand were then used as backfill to 1 foot bgs and grout was installed from 0.5 to 1 foot bgs. The well was completed with a flush-mounted 6-inch diameter road box and set in cold-patch asphalt.						
METHOD OF WELL DEVELOPMENT Well was not developed (riser was slightly curved)						
TYPE OF CASING PVC Sch 40		DIAMETER 2-in ID	TYPE OF BACKFILL MATERIAL Soil Cuttings/Clean Sand			
TYPE OF SCREEN 0.020-inch slotted PVC Sch 40		DIAMETER 2-in ID	TYPE OF SEAL MATERIAL Hydrated 30-50 mesh bentonite chip			
BOREHOLE DIAMETER 4 inches			TYPE OF FILTER MATERIAL #2 sand			
TOP OF CASING	ELEVATION	DEPTH (ft)	WELL DETAILS		DEPTH (FT)	
-	-	0.5				
TOP OF SEAL	ELEVATION	DEPTH (ft)			Asphalt to about 0.2 ft	0.5
TOP OF FILTER	ELEVATION	DEPTH (ft)				1.0
TOP OF SCREEN	ELEVATION	DEPTH (ft)				14.0
BOTTOM OF BORING	ELEVATION	DEPTH (ft)				24.0
SCREEN LENGTH	10 ft					
SLOT SIZE	0.02 Inches					
GROUNDWATER ELEVATIONS						
ELEVATION	DATE	DEPTH TO WATER				
-	10/14/2015	17.38				
ELEVATION	DATE	DEPTH TO WATER				
	10/20/2015	17.58				
ELEVATION	DATE	DEPTH TO WATER				
ELEVATION	DATE	DEPTH TO WATER				
ELEVATION	DATE	DEPTH TO WATER				
ELEVATION	DATE	DEPTH TO WATER				
LANGAN Engineering and Environmental Services, Inc.						
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727						

APPENDIX F
MONITORING WELL SAMPLING LOGS

APPENDIX G

SOIL VAPOR SAMPLING LOGS

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV01_101215

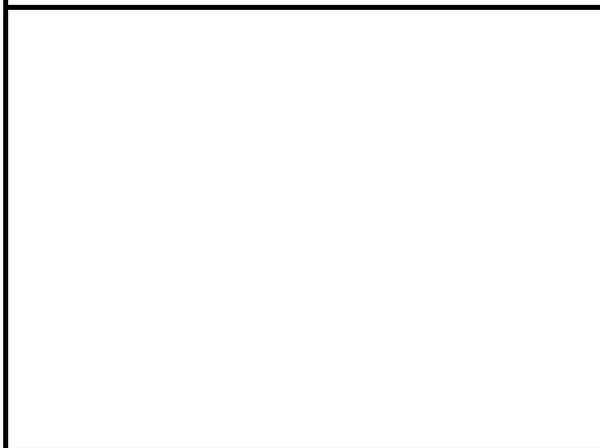
PROJECT: 111 Leroy Street	PROJECT NO.: 170370001
LOCATION: New York, NY	SURFACE ELEVATION AND DATUM: N/A (not surveyed)
DRILLING FIRM OR LANGAN INSTALLER: AARCO	INSTALLATION DATE STARTED: 10/12/2015 DATE FINISHED: 10/12/2015
INSTALLATION FOREMAN: Tom Seickel	SAMPLE DATE STARTED: 10/12/2015 DATE FINISHED: 10/12/2015
INSTALLATION EQUIPMENT: Geoprobe 7822DT	TYPE OF SAMPLING DEVICE: 6- Liter Summa Canister
INSPECTOR: Rebecca Tisherman	SAMPLER: Rebecca Tisherman
POTENTIAL SAMPLE INTERFERENCES: Cars in parking lot	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Outdoor sample in asphalt-paved parking lot. Outdoor temp = ~60 Deg F Barometric Pressure = ~29.58 in Hg

METHOD OF INSTALLATION AND PURGING:
Geoprobe 7822 DT installed to 6 ft bgs, backfilled with sand and bentonite. Purged with a MultiRAE for 2 minutes at a low pump rate (200 mL/min).
Sample type = Integrated 2-hour sample; soil vapor sample.

TUBING TYPE/DIAMETER: Teflon-lined polyethylene (1/4" OD, 3/16" ID)	TYPE OF MATERIAL ABOVE SEAL: N/A
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Steel mesh / 6" long screen / 1/4" ID	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Hydrated 30-50 mesh bentonite chip
BOREHOLE DIAMETER: 2"	FILTER PACK MATERIAL (Sand or Glass Beads): #2 Filter Sand

	PURGE VOLUME (L):	1	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES	
PURGE FLOW RATE (ML/MIN):	200		SURFACE SURFACE			
PID AFTER PURGE (PPM):	0					
HELIUM TEST IN BUCKET(%):	Before: 15.7% After: 13.1%					
HELIUM TEST IN TUBE (PPM):	Before: 0 After: 0					Asphalt paving to 0.5' bgs
SAMPLE START DATE/TIME:	9:20					
SAMPLE STOP DATE/TIME:	11:20					
TOTAL SAMPLE TIME (MIN):	120					
FLOW RATE (L/MIN):	0.1					
VOLUME OF SAMPLE (LITERS):	6					
PID AFTER SAMPLE (PPM):	0					No soil samples collected from borehole.
SAMPLE MOISTURE CONTENT:	-					
CAN SERIAL NUMBER:	16975			5		
REGULATOR SERIAL NUMBER:	Y31					
CAN START VACUUM PRESS. (" HG):	30					
CAN STOP VACUUM PRESS. (" HG):	9			6		

SAMPLE LOCATION SKETCH



NOTES

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV02_101315

PROJECT: 111 Leroy Street		PROJECT NO.: 170370001																							
LOCATION: New York, NY		SURFACE ELEVATION AND DATUM: N/A (not surveyed)																							
DRILLING FIRM OR LANGAN INSTALLER: AARCO		INSTALLATION DATE STARTED: 10/13/2015	DATE FINISHED: 10/13/2015																						
INSTALLATION FOREMAN: Tom Seickel		SAMPLE DATE STARTED: 10/13/2015	DATE FINISHED: 10/13/2015																						
INSTALLATION EQUIPMENT: Bosch Hammer Drill		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister																							
INSPECTOR: Rebecca Tisherman		SAMPLER: Rebecca Tisherman																							
POTENTIAL SAMPLE INTERFERENCES: No potential interferences observed.		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoor sample in building with concrete floor Outdoor temp = ~60 Deg F Barometric Pressure = ~29.58 in Hg																							
METHOD OF INSTALLATION AND PURGING: Bosch Hammer Drill installed to 1 ft bgs, backfilled with sand and bentonite. Purged with a MultiRAE for 2 minutes at a low pump rate (200 mL/min). Sample type = Integrated 2-hour sample; soil vapor sample.																									
TUBING TYPE/DIAMETER: Teflon-lined polyethylene (1/4" OD, 3/16" ID)		TYPE OF MATERIAL ABOVE SEAL: N/A																							
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Steel mesh / 6" long screen / 1/4" ID		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Hydrated 30-50 mesh bentonite chip																							
BOREHOLE DIAMETER: 2"		FILTER PACK MATERIAL (Sand or Glass Beads): #2 Filter Sand																							
PURGE VOLUME (L): 1		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th style="text-align: center;">DEPTH (FEET FROM SURFACE)</th> <th style="text-align: center;">NOTES</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">SURFACE</td> <td style="text-align: center;">SURFACE</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Sample Tubing</td> <td style="text-align: center;">Bentonite Seal</td> <td></td> <td rowspan="2" style="vertical-align: top;">Concrete floor to 0.5' bgs</td> </tr> <tr> <td></td> <td style="text-align: center;">Top of Pack</td> <td style="text-align: center;">0.3</td> </tr> <tr> <td style="text-align: center;">Sample Probe</td> <td style="text-align: center;">#2 Sand</td> <td></td> <td rowspan="2" style="vertical-align: top;">No soil samples collected from borehole.</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">1</td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE	SURFACE			Sample Tubing	Bentonite Seal		Concrete floor to 0.5' bgs		Top of Pack	0.3	Sample Probe	#2 Sand		No soil samples collected from borehole.			1
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)				DEPTH (FEET FROM SURFACE)	NOTES																				
SURFACE	SURFACE																								
Sample Tubing	Bentonite Seal				Concrete floor to 0.5' bgs																				
	Top of Pack			0.3																					
Sample Probe	#2 Sand				No soil samples collected from borehole.																				
				1																					
PURGE FLOW RATE (ML/MIN): 200																									
PID AFTER PURGE (PPM): 0																									
HELIUM TEST IN BUCKET(%): Before: 18.1% After: 12.6%																									
HELIUM TEST IN TUBE (PPM): Before: 0 After: 0																									
SAMPLE START DATE/TIME: 7:22																									
SAMPLE STOP DATE/TIME: 9:22																									
TOTAL SAMPLE TIME (MIN): 120																									
FLOW RATE (L/MIN): 0.1																									
VOLUME OF SAMPLE (LITERS): 6																									
PID AFTER SAMPLE (PPM): 0																									
SAMPLE MOISTURE CONTENT: -																									
CAN SERIAL NUMBER: Y50																									
REGULATOR SERIAL NUMBER: 7416																									
CAN START VACUUM PRESS. (" HG): 30																									
CAN STOP VACUUM PRESS. (" HG): 10																									
SAMPLE LOCATION SKETCH																									
NOTES																									

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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV03_101315

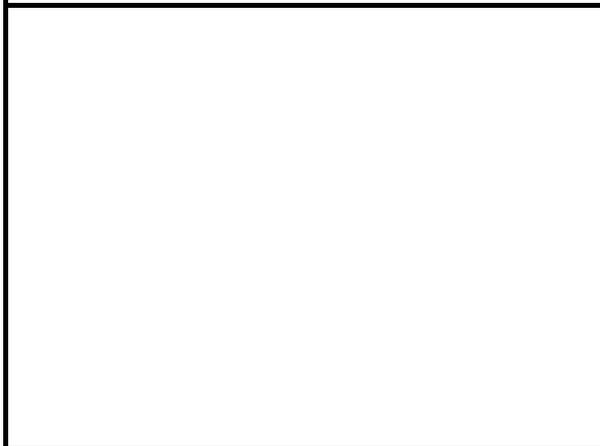
PROJECT: 111 Leroy Street	PROJECT NO.: 170370001
LOCATION: New York, NY	SURFACE ELEVATION AND DATUM: N/A (not surveyed)
DRILLING FIRM OR LANGAN INSTALLER: AARCO	INSTALLATION DATE STARTED: 10/13/2015 DATE FINISHED: 10/13/2015
INSTALLATION FOREMAN: Tom Seickel	SAMPLE DATE STARTED: 10/13/2015 DATE FINISHED: 10/13/2015
INSTALLATION EQUIPMENT: Geoprobe 7822DT	TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister
INSPECTOR: Rebecca Tisherman	SAMPLER: Rebecca Tisherman
POTENTIAL SAMPLE INTERFERENCES: Cars in parking lot	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Outdoor sample in asphalt-paved parking lot. Outdoor temp = ~60 Deg F Barometric Pressure = ~29.58 in Hg

METHOD OF INSTALLATION AND PURGING:
Geoprobe 7822 DT installed to 5 ft bgs, backfilled with sand and bentonite. Purged with a MultiRAE for 2 minutes at a low pump rate (200 mL/min).
Sample type = Integrated 2-hour sample; soil vapor sample.

TUBING TYPE/DIAMETER: Teflon-lined polyethylene (1/4" OD, 3/16" ID)	TYPE OF MATERIAL ABOVE SEAL: N/A
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Steel mesh / 6" long screen / 1/4" ID	SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Hydrated 30-50 mesh bentonite chip
BOREHOLE DIAMETER: 2"	FILTER PACK MATERIAL (Sand or Glass Beads): #2 Filter Sand

	PURGE VOLUME (L):	PURGE FLOW RATE (ML/MIN):	PID AFTER PURGE (PPM):	HELIUM TEST IN BUCKET(%):	HELIUM TEST IN TUBE (PPM):	SAMPLE START DATE/TIME:	SAMPLE STOP DATE/TIME:	TOTAL SAMPLE TIME (MIN):	FLOW RATE (L/MIN):	VOLUME OF SAMPLE (LITERS):	PID AFTER SAMPLE (PPM):	SAMPLE MOISTURE CONTENT:	CAN SERIAL NUMBER:	REGULATOR SERIAL NUMBER:	CAN START VACUUM PRESS. (" HG):	CAN STOP VACUUM PRESS. (" HG):						
	1	200	0	Before: 16.3% After: 15.4%	Before: 0 After: 0%	9:42	11:42	120	0.1	6	0	-	Y42	Y46	30	8		SURFACE SURFACE	SURFACE SURFACE	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES
																				No soil samples collected from borehole.		

SAMPLE LOCATION SKETCH



NOTES

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SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV04_101315

PROJECT: 111 Leroy Street		PROJECT NO.: 170370001																																																				
LOCATION: New York, NY		SURFACE ELEVATION AND DATUM: N/A (not surveyed)																																																				
DRILLING FIRM OR LANGAN INSTALLER: AARCO		INSTALLATION DATE STARTED: 10/13/2015	DATE FINISHED: 10/13/2015																																																			
INSTALLATION FOREMAN: Tom Seickel		SAMPLE DATE STARTED: 10/13/2015	DATE FINISHED: 10/13/2015																																																			
INSTALLATION EQUIPMENT: Bosch Hammer Drill		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister																																																				
INSPECTOR: Rebecca Tisherman		SAMPLER: Rebecca Tisherman																																																				
POTENTIAL SAMPLE INTERFERENCES: No potential interferences observed.		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Indoor sample with concrete floor Outdoor temp = ~60 Deg F Barometric Pressure = ~29.58 in Hg																																																				
METHOD OF INSTALLATION AND PURGING: Bosch Hammer Drill installed to 1 ft bgs, backfilled with sand and bentonite. Purged with a MultiRAE for 2 minutes at a low pump rate (200 mL/min). Sample type = Integrated 2-hour sample; soil vapor sample.																																																						
TUBING TYPE/DIAMETER: Teflon-lined polyethylene (1/4" OD, 3/16" ID)		TYPE OF MATERIAL ABOVE SEAL: N/A																																																				
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Steel mesh / 6" long screen / 1/4" ID		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Hydrated 30-50 mesh bentonite chip																																																				
BOREHOLE DIAMETER: 2"		FILTER PACK MATERIAL (Sand or Glass Beads): #2 Filter Sand																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>PURGE VOLUME (L):</td><td style="text-align: center;">1</td></tr> <tr><td>PURGE FLOW RATE (ML/MIN):</td><td style="text-align: center;">200</td></tr> <tr><td>PID AFTER PURGE (PPM):</td><td style="text-align: center;">0</td></tr> <tr><td>HELIUM TEST IN BUCKET(%):</td><td style="text-align: center;">Before: 20.01% After: 14.3%</td></tr> <tr><td>HELIUM TEST IN TUBE (PPM):</td><td style="text-align: center;">Before: 0 After: 0</td></tr> <tr><td>SAMPLE START DATE/TIME:</td><td style="text-align: center;">10:20</td></tr> <tr><td>SAMPLE STOP DATE/TIME:</td><td style="text-align: center;">12:20</td></tr> <tr><td>TOTAL SAMPLE TIME (MIN):</td><td style="text-align: center;">120</td></tr> <tr><td>FLOW RATE (L/MIN):</td><td style="text-align: center;">0.1</td></tr> <tr><td>VOLUME OF SAMPLE (LITERS):</td><td style="text-align: center;">6</td></tr> <tr><td>PID AFTER SAMPLE (PPM):</td><td style="text-align: center;">0</td></tr> <tr><td>SAMPLE MOISTURE CONTENT:</td><td></td></tr> <tr><td>CAN SERIAL NUMBER:</td><td style="text-align: center;">Y74</td></tr> <tr><td>REGULATOR SERIAL NUMBER:</td><td style="text-align: center;">Y74</td></tr> <tr><td>CAN START VACUUM PRESS. (" HG):</td><td style="text-align: center;">30</td></tr> <tr><td>CAN STOP VACUUM PRESS. (" HG):</td><td style="text-align: center;">8</td></tr> </table>		PURGE VOLUME (L):	1	PURGE FLOW RATE (ML/MIN):	200	PID AFTER PURGE (PPM):	0	HELIUM TEST IN BUCKET(%):	Before: 20.01% After: 14.3%	HELIUM TEST IN TUBE (PPM):	Before: 0 After: 0	SAMPLE START DATE/TIME:	10:20	SAMPLE STOP DATE/TIME:	12:20	TOTAL SAMPLE TIME (MIN):	120	FLOW RATE (L/MIN):	0.1	VOLUME OF SAMPLE (LITERS):	6	PID AFTER SAMPLE (PPM):	0	SAMPLE MOISTURE CONTENT:		CAN SERIAL NUMBER:	Y74	REGULATOR SERIAL NUMBER:	Y74	CAN START VACUUM PRESS. (" HG):	30	CAN STOP VACUUM PRESS. (" HG):	8	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th style="width: 20%;">DEPTH (FEET FROM SURFACE)</th> <th style="width: 30%;">NOTES</th> </tr> <tr> <td style="text-align: center;">SURFACE SURFACE</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Sample Tubing</td> <td></td> <td rowspan="2" style="vertical-align: middle;">Concrete floor to 0.5' bgs</td> </tr> <tr> <td style="text-align: center;">Bentonite Seal</td> <td></td> </tr> <tr> <td style="text-align: center;">Top of Pack</td> <td style="text-align: center;">0.3</td> <td rowspan="2" style="vertical-align: middle;">No soil samples collected from borehole.</td> </tr> <tr> <td style="text-align: center;">#2 Sand</td> <td></td> </tr> <tr> <td style="text-align: center;">Sample Probe</td> <td style="text-align: center;">1</td> <td></td> </tr> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)	DEPTH (FEET FROM SURFACE)	NOTES	SURFACE SURFACE			Sample Tubing		Concrete floor to 0.5' bgs	Bentonite Seal		Top of Pack	0.3	No soil samples collected from borehole.	#2 Sand		Sample Probe	1	
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SAMPLE LOCATION SKETCH		NOTES																																																				

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV05_101315

PROJECT: 111 Leroy Street		PROJECT NO.: 170370001																	
LOCATION: New York, NY		SURFACE ELEVATION AND DATUM: N/A (not surveyed)																	
DRILLING FIRM OR LANGAN INSTALLER: AARCO		INSTALLATION DATE STARTED: 10/13/2015	DATE FINISHED: 10/13/2015																
INSTALLATION FOREMAN: Tom Seickel		SAMPLE DATE STARTED: 10/13/2015	DATE FINISHED: 10/13/2015																
INSTALLATION EQUIPMENT: Geoprobe 7822DT		TYPE OF SAMPLING DEVICE: 6-Liter Summa Canister																	
INSPECTOR: Rebecca Tisherman		SAMPLER: Rebecca Tisherman																	
POTENTIAL SAMPLE INTERFERENCES: Cars in parking lot		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Outdoor sample in asphalt-paved parking lot. Outdoor temp = ~60 Deg F Barometric Pressure = ~29.58 in Hg																	
METHOD OF INSTALLATION AND PURGING: Geoprobe 7822 DT installed to 5 ft bgs, backfilled with sand and bentonite. Purged with a MultiRAE for 2 minutes at a low pump rate (200 mL/min). Sample type = Integrated 2-hour sample; soil vapor sample.																			
TUBING TYPE/DIAMETER: Teflon-lined polyethylene (1/4" OD, 3/16" ID)		TYPE OF MATERIAL ABOVE SEAL: N/A																	
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: Steel mesh / 6" long screen / 1/4" ID		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Hydrated 30-50 mesh bentonite chip																	
BOREHOLE DIAMETER: 2"		FILTER PACK MATERIAL (Sand or Glass Beads): #2 Filter Sand																	
PURGE VOLUME (L): 1		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th style="text-align: center;">DEPTH (FEET FROM SURFACE)</th> <th style="text-align: center;">NOTES</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">SURFACE</td> <td style="text-align: center;">SURFACE</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">Sample Tubing</td> <td style="text-align: center;">Hydrated Bentonite Seal</td> <td style="text-align: center;">5</td> <td style="vertical-align: top;">Asphalt paving to 0.5' bgs</td> </tr> <tr> <td style="text-align: center;">Sample Probe</td> <td style="text-align: center;">#2 Sand</td> <td style="text-align: center;">6</td> <td style="vertical-align: top;">No soil samples collected from borehole.</td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE	SURFACE			Sample Tubing	Hydrated Bentonite Seal	5	Asphalt paving to 0.5' bgs	Sample Probe	#2 Sand	6	No soil samples collected from borehole.
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)				DEPTH (FEET FROM SURFACE)	NOTES														
SURFACE	SURFACE																		
Sample Tubing	Hydrated Bentonite Seal			5	Asphalt paving to 0.5' bgs														
Sample Probe	#2 Sand			6	No soil samples collected from borehole.														
PURGE FLOW RATE (ML/MIN): 200																			
PID AFTER PURGE (PPM): 0																			
HELIUM TEST IN BUCKET(%): Before: 13.2% After: 17.2%																			
HELIUM TEST IN TUBE (PPM): Before: 0 After: 0																			
SAMPLE START DATE/TIME: 10:30																			
SAMPLE STOP DATE/TIME: 12:30																			
TOTAL SAMPLE TIME (MIN): 120																			
FLOW RATE (L/MIN): 0.1																			
VOLUME OF SAMPLE (LITERS): 6																			
PID AFTER SAMPLE (PPM): 0																			
SAMPLE MOISTURE CONTENT: -																			
CAN SERIAL NUMBER: Y76																			
REGULATOR SERIAL NUMBER: Y76																			
CAN START VACUUM PRESS. (" HG): 30																			
CAN STOP VACUUM PRESS. (" HG): 10																			
SAMPLE LOCATION SKETCH																			
NOTES																			
Ambient air sample AA01_101315 was collected at 2' above grade surface.																			
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727																			

APPENDIX H

LABORATORY ANALYTICAL DATA REPORTS



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Gerald Nicholls

Report Date: 10/19/2015

Client Project ID: 170370001

York Project (SDG) No.: 15J0456

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/19/2015
Client Project ID: 170370001
York Project (SDG) No.: 15J0456

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

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 October 12, 2015 and listed below. The project was identified as your project: **170370001**.

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>
15J0456-01	SV01_101215	Soil Vapor	10/12/2015	10/12/2015

General Notes for York Project (SDG) No.: 15J0456

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: 10/19/2015





Sample Information

Client Sample ID: SV01_101215

York Sample ID: 15J0456-01

<u>York Project (SDG) No.</u> 15J0456	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> October 12, 2015 3:00 pm	<u>Date Received</u> 10/12/2015
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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	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	13	13	18.33	EPA TO-15 Certifications:	10/15/2015 12:03	10/17/2015 03:41	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	10	10	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	13	13	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	14	14	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	10	10	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	7.4	7.4	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	7.3	7.3	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	14	14	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
95-63-6	1,2,4-Trimethylbenzene	14		ug/m ³	9.0	9.0	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	14	14	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	11	11	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	7.4	7.4	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	8.5	8.5	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	13	13	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	9.0	9.0	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	24	24	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	11	11	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	8.5	8.5	18.33	EPA TO-15 Certifications:	10/15/2015 12:03	10/17/2015 03:41	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	11	11	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	13	13	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
78-93-3	2-Butanone	17		ug/m ³	5.4	5.4	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	15	15	18.33	EPA TO-15 Certifications:	10/15/2015 12:03	10/17/2015 03:41	ALD
107-05-1	* 3-Chloropropene	ND		ug/m ³	29	29	18.33	EPA TO-15 Certifications:	10/15/2015 12:03	10/17/2015 03:41	ALD



Sample Information

Client Sample ID: SV01_101215

York Sample ID: 15J0456-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0456

170370001

Soil Vapor

October 12, 2015 3:00 pm

10/12/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	7.5	7.5	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
67-64-1	Acetone	31		ug/m ³	8.7	8.7	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
107-13-1	* Acrylonitrile	ND		ug/m ³	4.0	4.0	18.33	EPA TO-15 Certifications:	10/15/2015 12:03	10/17/2015 03:41	ALD
71-43-2	Benzene	13		ug/m ³	5.9	5.9	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	9.5	9.5	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	11	11	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-25-2	Bromoform	ND		ug/m ³	19	19	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
74-83-9	Bromomethane	ND		ug/m ³	7.1	7.1	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-15-0	Carbon disulfide	6.8		ug/m ³	5.7	5.7	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	2.9	2.9	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	8.4	8.4	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-00-3	Chloroethane	ND		ug/m ³	4.8	4.8	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
67-66-3	Chloroform	ND		ug/m ³	8.9	8.9	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
74-87-3	Chloromethane	ND		ug/m ³	3.8	3.8	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	7.3	7.3	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	8.3	8.3	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
110-82-7	Cyclohexane	ND		ug/m ³	6.3	6.3	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	15	15	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	9.1	9.1	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	13	13	18.33	EPA TO-15 Certifications:	10/15/2015 12:03	10/17/2015 03:41	ALD
100-41-4	Ethyl Benzene	25		ug/m ³	8.0	8.0	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	20	20	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
67-63-0	Isopropanol	ND		ug/m ³	9.0	9.0	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD



Sample Information

Client Sample ID: SV01_101215

York Sample ID: 15J0456-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0456

170370001

Soil Vapor

October 12, 2015 3:00 pm

10/12/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	7.5	7.5	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	6.6	6.6	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-09-2	Methylene chloride	69		ug/m ³	13	13	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
142-82-5	n-Heptane	29		ug/m ³	7.5	7.5	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
110-54-3	n-Hexane	140		ug/m ³	6.5	6.5	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
95-47-6	o-Xylene	27		ug/m ³	8.0	8.0	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
179601-23-1	p- & m- Xylenes	75		ug/m ³	16	16	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
622-96-8	* p-Ethyltoluene	14		ug/m ³	9.0	9.0	18.33	EPA TO-15 Certifications:	10/15/2015 12:03	10/17/2015 03:41	ALD
115-07-1	* Propylene	80		ug/m ³	3.2	3.2	18.33	EPA TO-15 Certifications:	10/15/2015 12:03	10/17/2015 03:41	ALD
100-42-5	Styrene	16		ug/m ³	7.8	7.8	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
127-18-4	Tetrachloroethylene	ND		ug/m ³	3.1	3.1	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	11	11	18.33	EPA TO-15 Certifications:	10/15/2015 12:03	10/17/2015 03:41	ALD
108-88-3	Toluene	28		ug/m ³	6.9	6.9	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	7.3	7.3	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	8.3	8.3	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
79-01-6	Trichloroethylene	110		ug/m ³	2.5	2.5	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	10	10	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	6.5	6.5	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
593-60-2	Vinyl bromide	ND		ug/m ³	8.0	8.0	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
75-01-4	Vinyl Chloride	ND		ug/m ³	4.7	4.7	18.33	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/15/2015 12:03	10/17/2015 03:41	ALD
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	90.8 %			72-118						



Analytical Batch Summary

Batch ID: BJ50773

Preparation Method: EPA TO15 PREP

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0456-01	SV01_101215	10/15/15
BJ50773-BLK1	Blank	10/15/15
BJ50773-BS1	LCS	10/15/15



Volatile Organic Compounds in Air by GC/MS - 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 BJ50773 - EPA TO15 PREP

Blank (BJ50773-BLK1)

Prepared: 10/15/2015 Analyzed: 10/16/2015

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.40	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	1.3	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.62	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.40	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.80	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								



Volatile Organic Compounds in Air by GC/MS - 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 BJ50773 - EPA TO15 PREP

Blank (BJ50773-BLK1)

Prepared: 10/15/2015 Analyzed: 10/16/2015

o-Xylene	ND	0.43	ug/m ³								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.26	"								

Surrogate: p-Bromofluorobenzene	9.62		ppbv	10.4		92.5	72-118				
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LCS (BJ50773-BS1)

Prepared: 10/15/2015 Analyzed: 10/16/2015

1,1,1,2-Tetrachloroethane	11.6		ppbv	10.5		110	82-126				
1,1,1-Trichloroethane	15.3		"	10.2		150	70-130	High Bias			
1,1,2,2-Tetrachloroethane	9.52		"	10.3		92.4	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.9		"	10.4		134	70-130	High Bias			
1,1,2-Trichloroethane	10.5		"	10.3		102	70-130				
1,1-Dichloroethane	12.2		"	10.2		119	70-130				
1,1-Dichloroethylene	12.8		"	10.4		123	70-130				
1,2,4-Trichlorobenzene	9.27		"	9.00		103	70-130				
1,2,4-Trimethylbenzene	10.6		"	10.2		104	70-130				
1,2-Dibromoethane	11.2		"	10.4		108	70-130				
1,2-Dichlorobenzene	10.8		"	10.1		107	70-130				
1,2-Dichloroethane	14.5		"	10.2		142	70-130	High Bias			
1,2-Dichloropropane	9.15		"	10.2		89.7	70-130				
1,2-Dichlorotetrafluoroethane	11.6		"	9.80		118	70-130				
1,3,5-Trimethylbenzene	10.1		"	10.0		101	70-130				
1,3-Butadiene	12.6		"	10.1		125	70-130				
1,3-Dichlorobenzene	11.2		"	10.2		110	70-130				
1,3-Dichloropropane	10.3		"	10.5		98.3	70-130				
1,4-Dichlorobenzene	11.4		"	10.1		112	70-130				
1,4-Dioxane	10.1		"	10.2		98.9	70-130				
2-Butanone	11.7		"	10.4		112	70-130				
2-Hexanone	10.5		"	10.5		99.6	70-130				
3-Chloropropene	11.4		"	10.7		107	70-130				
4-Methyl-2-pentanone	9.21		"	10.2		90.3	70-130				
Acetone	12.5		"	10.6		118	70-130				
Acrylonitrile	14.8		"	10.3		143	70-130	High Bias			
Benzene	12.4		"	10.3		120	70-130				
Benzyl chloride	10.1		"	10.2		99.1	70-130				
Bromodichloromethane	11.1		"	10.2		109	70-130				
Bromoform	12.3		"	10.1		122	70-130				
Bromomethane	11.9		"	9.50		125	70-130				
Carbon disulfide	13.3		"	10.5		126	70-130				
Carbon tetrachloride	14.9		"	10.2		146	70-130	High Bias			
Chlorobenzene	10.6		"	10.5		100	70-130				



Volatile Organic Compounds in Air by GC/MS - 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 BJ50773 - EPA TO15 PREP

LCS (BJ50773-BS1)

Prepared: 10/15/2015 Analyzed: 10/16/2015

Chloroethane	11.2		ppbv	9.40		120	70-130				
Chloroform	13.6		"	10.4		130	70-130				
Chloromethane	9.40		"	9.80		95.9	70-130				
cis-1,2-Dichloroethylene	12.2		"	10.2		120	70-130				
cis-1,3-Dichloropropylene	11.3		"	11.0		103	70-130				
Cyclohexane	11.7		"	10.3		114	70-130				
Dibromochloromethane	12.0		"	10.6		113	70-130				
Dichlorodifluoromethane	12.6		"	9.80		128	70-130				
Ethyl acetate	11.7		"	10.4		112	70-130				
Ethyl Benzene	10.3		"	10.4		98.7	70-130				
Hexachlorobutadiene	11.5		"	9.10		127	70-130				
Isopropanol	11.2		"	10.0		112	70-130				
Methyl Methacrylate	10.5		"	9.80		107	70-130				
Methyl tert-butyl ether (MTBE)	13.6		"	10.3		132	70-130	High Bias			
Methylene chloride	10.6		"	10.4		102	70-130				
n-Heptane	11.4		"	10.5		109	70-130				
n-Hexane	11.6		"	10.5		111	70-130				
o-Xylene	10.7		"	10.3		104	70-130				
p- & m- Xylenes	21.4		"	20.2		106	70-130				
p-Ethyltoluene	10.4		"	10.0		104	70-130				
Propylene	9.65		"	10.6		91.0	70-130				
Styrene	11.1		"	10.2		109	70-130				
Tetrachloroethylene	11.0		"	9.90		111	70-130				
Tetrahydrofuran	11.0		"	10.6		104	70-130				
Toluene	10.5		"	10.5		100	70-130				
trans-1,2-Dichloroethylene	12.1		"	10.1		120	70-130				
trans-1,3-Dichloropropylene	11.4		"	10.3		111	70-130				
Trichloroethylene	10.6		"	10.2		104	70-130				
Trichlorofluoromethane (Freon 11)	15.3		"	9.90		155	70-130	High Bias			
Vinyl acetate	13.5		"	10.7		126	70-130				
Vinyl bromide	13.7		"	10.5		131	70-130	High Bias			
Vinyl Chloride	12.3		"	9.90		125	70-130				
Surrogate: p-Bromofluorobenzene	9.68		"	10.4		93.1	72-118				



Notes and Definitions

QL-03 This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.

CCV-A The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.





Field Chain-of-Custody Record - AIR

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 unless superseded by written contract.

York Project No. 15J0456

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type/Deliverables
Company: <u>Langan</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	<u>170370001</u>	RUSH - Same Day <input type="checkbox"/>	Summary Report _____
Address: <u>310 W 31st St</u> <u>NY NY</u>	Address: _____	Address: _____		RUSH - Next Day <input type="checkbox"/>	Summary w/ QA Summary _____
Phone No. <u>212-479-5518</u>	Phone No. _____	Phone No. _____	Purchase Order No.	RUSH - Two Day <input type="checkbox"/>	CT RCP Package _____
Contact Person: <u>P. Farhan</u>	Attention: <u>Gerry Nicholls</u>	Attention: _____	Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>	RUSH - Three Day <input type="checkbox"/>	NY ASP A Package <input checked="" type="checkbox"/>
E-Mail Address: <u>pfarhan@langan.com</u>	E-Mail Address: <u>gnicholls@langan.com</u>	E-Mail Address: _____		Standard(5-7 Days) <input checked="" type="checkbox"/>	RUSH - Four Day <input type="checkbox"/>

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.

Additional Notes:

Detection Limits Required

≤ 1 ug/m³ _____

NYSDEC VI Limits _____

(VI = vapor intrusion)

NJDEP low level _____

Routine Survey _____

Other _____

Special Instructions

Regulatory Comparison Excel _____

Electronic Deliverables:

EDD (Specify Type) _____

Standard Excel

Air Matrix Codes

- AI - INDOOR Ambient Air
- AO- OUTDOOR Amb. Air
- AE- Vapor Extraction Well/
Process Gas/Effluent
- AS- SOIL Vapor/Sub-Slab

Samples Collected/Authorized By (Signature)

Rebecca Tishema

Name (printed)

Please enter the following Field Data

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Canister ID	Flow Cont.ID	ANALYSES REQUESTED	Sampling Media
<u>SVO1-101215</u>	<u>10/12/15</u>	<u>AS</u>	<u>30</u>	<u>19</u>	<u>16975</u>	<u>Y31</u>	<u>TO-15</u>	6 Liter canister <input checked="" type="checkbox"/> Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
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								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____
								6 Liter canister _____ Tedlar Bag _____

Page 12 of 12

Comments

[Signature] 10/12/15
Samples Relinquished By Date/Time

Samples Relinquished By Date/Time

[Signature] 10/12/15 3:20
Samples Received By Date/Time

[Signature] 10/12/15 1827
Samples Received in LAB by Date/Time



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Patrick Farnham

Report Date: 10/20/2015

Client Project ID: 170370001

York Project (SDG) No.: 15J0461

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/20/2015
Client Project ID: 170370001
York Project (SDG) No.: 15J0461

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

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 October 12, 2015 and listed below. The project was identified as your project: **170370001**.

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>
15J0461-01	SB01_0-2	Soil	10/12/2015	10/12/2015
15J0461-02	SB01_18-20	Soil	10/12/2015	10/12/2015
15J0461-03	SB05_0-2	Soil	10/12/2015	10/12/2015
15J0461-04	SB05_21-23	Soil	10/12/2015	10/12/2015
15J0461-05	SB09_0-2	Soil	10/12/2015	10/12/2015
15J0461-06	SB09_17-19	Soil	10/12/2015	10/12/2015
15J0461-07	SB08_0-2	Soil	10/12/2015	10/12/2015
15J0461-08	SB08_16-18	Soil	10/12/2015	10/12/2015
15J0461-09	SB04_0-2	Soil	10/12/2015	10/12/2015
15J0461-10	SB04_16-18	Soil	10/12/2015	10/12/2015
15J0461-11	SOTB_101215	Water	10/12/2015	10/12/2015
15J0461-12	SOFB01_101215	Water	10/12/2015	10/12/2015

General Notes for York Project (SDG) No.: 15J0461

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: 10/20/2015





Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0461	170370001	Soil	October 12, 2015 8:15 am	10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	48	96	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS



Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 8:15 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	7.5	CCV-E, ICV-E, SCAL- E, J	ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
107-02-8	Acrolein	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
71-43-2	Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS



Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 8:15 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 13:07	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 13:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
100-42-5	Styrene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.8	9.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
108-88-3	Toluene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.2	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:07	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	94.1 %	77-125
2037-26-5	Surrogate: Toluene-d8	101 %	85-120
460-00-4	Surrogate: p-Bromofluorobenzene	107 %	76-130



Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0461	170370001	Soil	October 12, 2015 8:15 am	10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	138	276	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 22:55	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 22:55	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 22:55	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	138	276	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	138	276	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	138	276	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH



Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 8:15 am

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/kg dry	138	276	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	138	276	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	138	276	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	138	276	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
83-32-9	Acenaphthene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
98-86-2	Acetophenone	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
62-53-3	Aniline	ND		ug/kg dry	276	553	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
120-12-7	Anthracene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
1912-24-9	Atrazine	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
92-87-5	Benzidine	ND		ug/kg dry	276	553	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/16/2015 22:55	KH
56-55-3	Benzo(a)anthracene	263		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
50-32-8	Benzo(a)pyrene	154		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
205-99-2	Benzo(b)fluoranthene	138		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
191-24-2	Benzo(g,h,i)perylene	99.3	J	ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
207-08-9	Benzo(k)fluoranthene	154		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
65-85-0	Benzoic acid	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH



Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 8:15 am

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
105-60-2	Caprolactam	ND		ug/kg dry	138	276	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
86-74-8	Carbazole	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
218-01-9	Chrysene	277		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
206-44-0	Fluoranthene	499		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
86-73-7	Fluorene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
193-39-5	Indeno(1,2,3-cd)pyrene	80.5	J	ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
78-59-1	Isophorone	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
91-20-3	Naphthalene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH



Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 8:15 am	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:55	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
85-01-8	Phenanthrene	221		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
108-95-2	Phenol	ND		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
129-00-0	Pyrene	513		ug/kg dry	69.2	138	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:55	KH
	Surrogate Recoveries	Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	40.1 %			10-95						
4165-62-2	Surrogate: Phenol-d5	43.3 %			10-107						
4165-60-0	Surrogate: Nitrobenzene-d5	40.5 %			10-95						
321-60-8	Surrogate: 2-Fluorobiphenyl	42.8 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	25.9 %			10-103						
1718-51-0	Surrogate: Terphenyl-d14	45.2 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
50-29-3	4,4'-DDT	4.89		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.28	7.28	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC



Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 8:15 am	<u>Date Received</u> 10/12/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
72-20-8	Endrin	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 20:44	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.82	1.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	9.10	9.10	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:44	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	92.1	92.1	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 20:44	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	70.8 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	90.4 %	30-140								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:08	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:08	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:08	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:08	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:08	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:08	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:08	AMC



Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 8:15 am

10/12/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	0.0184	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 02:08	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	76.6 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	80.7 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	22.1	22.1	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 15:44	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.1	22.1	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 15:44	AMC
94-75-7	2,4-D	ND		ug/kg dry	22.1	22.1	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 15:44	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L)	90.2 %			30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5920		mg/kg dry	5.52	5.52	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.552	0.552	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-38-2	Arsenic	3.83		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-39-3	Barium	224		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.110	0.110	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-43-9	Cadmium	0.480		mg/kg dry	0.331	0.331	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-70-2	Calcium	26600		mg/kg dry	0.552	5.52	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-47-3	Chromium	12.9		mg/kg dry	0.552	0.552	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-48-4	Cobalt	5.60		mg/kg dry	0.552	0.552	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-50-8	Copper	26.7		mg/kg dry	0.552	0.552	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD



Sample Information

Client Sample ID: SB01_0-2

York Sample ID: 15J0461-01

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 8:15 am	<u>Date Received</u> 10/12/2015
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	11300		mg/kg dry	2.21	2.21	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7439-92-1	Lead	307		mg/kg dry	0.331	0.331	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7439-95-4	Magnesium	4260		mg/kg dry	5.52	5.52	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7439-96-5	Manganese	351		mg/kg dry	0.552	0.552	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-02-0	Nickel	16.8		mg/kg dry	0.552	0.552	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-09-7	Potassium	997		mg/kg dry	5.52	5.52	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7782-49-2	Selenium	1.23		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-22-4	Silver	ND		mg/kg dry	0.552	0.552	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-23-5	Sodium	288		mg/kg dry	11.0	11.0	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-62-2	Vanadium	19.3		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD
7440-66-6	Zinc	247		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:18	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.236		mg/kg dry	0.0331	0.0331	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/15/2015 08:33	10/15/2015 13:25	KV

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	450		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/12/2015 18:53	10/12/2015 18:53	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB01_0-2 **York Sample ID:** 15J0461-01
York Project (SDG) No. 15J0461 **Client Project ID** 170370001 **Matrix** Soil **Collection Date/Time** October 12, 2015 8:15 am **Date Received** 10/12/2015

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	90.6		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/13/2015 11:39	10/14/2015 13:02	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16840-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.386	0.552	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/14/2015 08:51	10/14/2015 14:27	SC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	12.9		mg/kg	0.250	0.500	1	Calculation Certifications:	10/19/2015 15:43	10/19/2015 15:50	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.552	0.552	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/13/2015 09:30	10/13/2015 15:31	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	9.83		pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/12/2015 18:58	10/12/2015 18:58	KK

Sample Information

Client Sample ID: SB01_18-20 **York Sample ID:** 15J0461-02
York Project (SDG) No. 15J0461 **Client Project ID** 170370001 **Matrix** Soil **Collection Date/Time** October 12, 2015 8:45 am **Date Received** 10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: Rep-04

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0461	170370001	Soil	October 12, 2015 8:45 am	10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: Rep-04

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	7600	15000	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
78-93-3	2-Butanone	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
591-78-6	2-Hexanone	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 8:45 am

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: Rep-04

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/kg dry	760	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
107-02-8	Acrolein	ND		ug/kg dry	760	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
71-43-2	Benzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-25-2	Bromoform	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
74-83-9	Bromomethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-00-3	Chloroethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
67-66-3	Chloroform	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
74-87-3	Chloromethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
110-82-7	Cyclohexane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
74-95-3	Dibromomethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
79-20-9	Methyl acetate	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 8:45 am

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: Rep-04

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-09-2	Methylene chloride	ND		ug/kg dry	760	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
95-47-6	o-Xylene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 09:41	10/19/2015 14:26	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	760	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 09:41	10/19/2015 14:26	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
100-42-5	Styrene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	760	1500	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
108-88-3	Toluene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 09:41	10/19/2015 14:26	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	380	760	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	1100	2300	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 09:41	10/19/2015 14:26	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	77-125								
2037-26-5	Surrogate: Toluene-d8	93.3 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	98.1 %	76-130								

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0461	170370001	Soil	October 12, 2015 8:45 am	10/12/2015

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	574		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	159	317	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 13:26	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 13:26	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 13:26	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	159	317	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	159	317	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	159	317	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	159	317	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 8:45 am

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	159	317	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	159	317	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	159	317	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
83-32-9	Acenaphthene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
98-86-2	Acetophenone	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
62-53-3	Aniline	ND		ug/kg dry	318	636	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
120-12-7	Anthracene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
1912-24-9	Atrazine	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
92-87-5	Benzidine	ND		ug/kg dry	318	636	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/19/2015 13:26	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
191-24-2	Benzo(g,h,i)perylene	ND	IS-06	ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
65-85-0	Benzoic acid	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
85-68-7	Benzyl butyl phthalate	88.9	J	ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 8:45 am

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
105-60-2	Caprolactam	ND		ug/kg dry	159	317	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
86-74-8	Carbazole	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
218-01-9	Chrysene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
53-70-3	Dibenzo(a,h)anthracene	ND	IS-06	ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
206-44-0	Fluoranthene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
86-73-7	Fluorene	678		ug/kg dry	79.6	159	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND	IS-06	ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
78-59-1	Isophorone	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
91-20-3	Naphthalene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 13:26	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	79.6	159	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 13:26	KH



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 8:45 am

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, and Surrogate Recoveries.

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes rows for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, Aldrin, alpha-BHC, beta-BHC, Chlordane, total, delta-BHC, Dieldrin, Endosulfan I, Endosulfan II.



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 8:45 am	<u>Date Received</u> 10/12/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.10	2.10	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:59	AMC
72-20-8	Endrin	ND		ug/kg dry	2.10	2.10	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:59	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.10	2.10	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:59	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	2.10	2.10	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 20:59	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.10	2.10	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:59	AMC
76-44-8	Heptachlor	ND		ug/kg dry	2.10	2.10	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:59	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.10	2.10	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:59	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	10.5	10.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 20:59	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	106	106	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 20:59	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	46.8 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	35.7 %	30-140								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0212	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:37	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0212	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:37	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0212	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:37	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0212	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:37	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0212	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:37	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0212	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:37	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0212	0.0212	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 02:37	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0212	0.0212	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 02:37	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	62.2 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	64.3 %	30-140								



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 8:45 am	10/12/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	25.4	25.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:00	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	25.4	25.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:00	AMC
94-75-7	2,4-D	ND		ug/kg dry	25.4	25.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:00	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (E 68.4 %				30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7200		mg/kg dry	6.35	6.35	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.635	0.635	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-38-2	Arsenic	1.97		mg/kg dry	1.27	1.27	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-39-3	Barium	39.5		mg/kg dry	1.27	1.27	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.127	0.127	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.381	0.381	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-70-2	Calcium	2580		mg/kg dry	0.635	6.35	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-47-3	Chromium	103		mg/kg dry	0.635	0.635	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-48-4	Cobalt	23.2		mg/kg dry	0.635	0.635	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-50-8	Copper	20.5		mg/kg dry	0.635	0.635	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7439-89-6	Iron	18800		mg/kg dry	2.54	2.54	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7439-92-1	Lead	15.4		mg/kg dry	0.381	0.381	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7439-95-4	Magnesium	4000		mg/kg dry	6.35	6.35	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7439-96-5	Manganese	221		mg/kg dry	0.635	0.635	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-02-0	Nickel	354		mg/kg dry	0.635	0.635	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:23	ALD



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 8:45 am

10/12/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	877		mg/kg dry	6.35	6.35	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7782-49-2	Selenium	4.82		mg/kg dry	1.27	1.27	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-22-4	Silver	ND		mg/kg dry	0.635	0.635	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-23-5	Sodium	325		mg/kg dry	12.7	12.7	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.27	1.27	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-62-2	Vanadium	41.6		mg/kg dry	1.27	1.27	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD
7440-66-6	Zinc	24.1		mg/kg dry	1.27	1.27	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:23	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0381	0.0381	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/15/2015 08:33	10/15/2015 13:34	KV

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	470		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/12/2015 18:53	10/12/2015 18:53	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	78.8		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/13/2015 11:39	10/14/2015 13:02	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.444	0.635	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/14/2015 08:51	10/14/2015 14:27	SC



Sample Information

Client Sample ID: SB01_18-20

York Sample ID: 15J0461-02

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 8:45 am	<u>Date Received</u> 10/12/2015
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Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	103		mg/kg	0.250	0.500	1	Calculation	10/19/2015 15:43	10/19/2015 15:50	PAM
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.635	0.635	1	EPA 9014/9010C	10/13/2015 09:30	10/13/2015 15:31	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP											

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	7.90		pH units		0.500	1	EPA 9045D	10/12/2015 18:58	10/12/2015 18:58	KK
Certifications: NELAC-NY10854,CTDOH											

Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 10:16 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	10/19/2015 08:38	10/19/2015 13:41	SS
Certifications: CTDOH,NELAC-NY10854,NJDEP											
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	10/19/2015 08:38	10/19/2015 13:41	SS
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	10/19/2015 08:38	10/19/2015 13:41	SS
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	10/19/2015 08:38	10/19/2015 13:41	SS
Certifications: CTDOH,NELAC-NY10854,NJDEP											
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	10/19/2015 08:38	10/19/2015 13:41	SS
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	10/19/2015 08:38	10/19/2015 13:41	SS
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	10/19/2015 08:38	10/19/2015 13:41	SS
Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP											
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C	10/19/2015 08:38	10/19/2015 13:41	SS
Certifications: NELAC-NY10854,NJDEP											



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 10:16 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
67-64-1	Acetone	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
107-02-8	Acrolein	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
75-25-2	Bromoform	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 10:16 am

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 13:41	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 13:41	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 10:16 am	10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
108-88-3	Toluene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 13:41	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
79-01-6	Trichloroethylene	3,4	J	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 13:41	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	93.9 %	77-125								
2037-26-5	Surrogate: Toluene-d8	105 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	116 %	76-130								

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	104	J	ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	139	278	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 12:54	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 12:54	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 12:54	KH



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 10:16 am	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	139	278	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	139	278	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
91-57-6	2-Methylnaphthalene	260		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	139	278	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	139	278	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	139	278	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	139	278	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	139	278	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 10:16 am	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	169		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
98-86-2	Acetophenone	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
62-53-3	Aniline	ND		ug/kg dry	279	558	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
120-12-7	Anthracene	604		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
1912-24-9	Atrazine	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
92-87-5	Benzidine	ND		ug/kg dry	279	558	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/19/2015 12:54	KH
56-55-3	Benzo(a)anthracene	2010		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
50-32-8	Benzo(a)pyrene	1080		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
205-99-2	Benzo(b)fluoranthene	1150		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
191-24-2	Benzo(g,h,i)perylene	859	IS-06	ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
207-08-9	Benzo(k)fluoranthene	986		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
65-85-0	Benzoic acid	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
105-60-2	Caprolactam	ND		ug/kg dry	139	278	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
86-74-8	Carbazole	147		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
218-01-9	Chrysene	1700		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 10:16 am	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	344	IS-06	ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
132-64-9	Dibenzofuran	154		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
206-44-0	Fluoranthene	3180		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
86-73-7	Fluorene	173		ug/kg dry	69.8	139	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
193-39-5	Indeno(1,2,3-cd)pyrene	854	IS-06	ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
78-59-1	Isophorone	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
91-20-3	Naphthalene	390		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:54	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
85-01-8	Phenanthrene	1660		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
108-95-2	Phenol	ND		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH
129-00-0	Pyrene	2850		ug/kg dry	69.8	139	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:54	KH



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 10:16 am	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	67.8 %			10-95						
4165-62-2	Surrogate: Phenol-d5	60.7 %			10-107						
4165-60-0	Surrogate: Nitrobenzene-d5	73.5 %			10-95						
321-60-8	Surrogate: 2-Fluorobiphenyl	66.5 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	38.9 %			10-103						
1718-51-0	Surrogate: Terphenyl-d14	67.7 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	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 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
50-29-3	4,4'-DDT	3.38		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.35	7.35	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
72-20-8	Endrin	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 21:14	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 10:16 am

10/12/2015

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-44-8	Heptachlor	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.84	1.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	9.19	9.19	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:14	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	93.0	93.0	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 21:14	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	45.8 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	47.6 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:06	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:06	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:06	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:06	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:06	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:06	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:06	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0186	0.0186	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 03:06	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	63.7 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	59.9 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	22.3	22.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:16	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.3	22.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:16	AMC



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 10:16 am

10/12/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
94-75-7	2,4-D	ND		ug/kg dry	22.3	22.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 05:09	10/13/2015 16:16	AMC
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	99.0 %	30-150								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3360		mg/kg dry	5.57	5.57	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.557	0.557	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-38-2	Arsenic	6.47		mg/kg dry	1.11	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-39-3	Barium	126		mg/kg dry	1.11	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-41-7	Beryllium	0.857		mg/kg dry	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-43-9	Cadmium	0.955		mg/kg dry	0.334	0.334	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-70-2	Calcium	38500		mg/kg dry	0.557	5.57	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-47-3	Chromium	33.9		mg/kg dry	0.557	0.557	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-48-4	Cobalt	22.8		mg/kg dry	0.557	0.557	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-50-8	Copper	187		mg/kg dry	0.557	0.557	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7439-89-6	Iron	13700		mg/kg dry	2.23	2.23	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7439-92-1	Lead	280		mg/kg dry	0.334	0.334	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7439-95-4	Magnesium	18100		mg/kg dry	5.57	5.57	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7439-96-5	Manganese	259		mg/kg dry	0.557	0.557	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-02-0	Nickel	32.8		mg/kg dry	0.557	0.557	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-09-7	Potassium	557		mg/kg dry	5.57	5.57	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7782-49-2	Selenium	1.22		mg/kg dry	1.11	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:28	ALD



Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

York Project (SDG) No.

15J0461

Client Project ID

170370001

Matrix

Soil

Collection Date/Time

October 12, 2015 10:16 am

Date Received

10/12/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/kg dry	0.557	0.557	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-23-5	Sodium	295		mg/kg dry	11.1	11.1	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.11	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-62-2	Vanadium	37.0		mg/kg dry	1.11	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD
7440-66-6	Zinc	1350		mg/kg dry	1.11	1.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:28	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.271		mg/kg dry	0.0334	0.0334	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/15/2015 08:33	10/15/2015 13:43	KV

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	460		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/12/2015 18:53	10/12/2015 18:53	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.8		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/13/2015 11:39	10/14/2015 13:02	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.390	0.557	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/14/2015 08:51	10/14/2015 14:27	SC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB05_0-2

York Sample ID: 15J0461-03

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 10:16 am	<u>Date Received</u> 10/12/2015
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Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	33.9		mg/kg	0.250	0.500	1	Calculation Certifications:	10/19/2015 15:43	10/19/2015 15:50	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.557	0.557	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/13/2015 09:30	10/13/2015 15:31	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	9.64		pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/12/2015 18:58	10/12/2015 18:58	KK

Sample Information

Client Sample ID: SB05_21-23

York Sample ID: 15J0461-04

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 11:00 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS



Sample Information

Client Sample ID: SB05_21-23

York Sample ID: 15J0461-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 11:00 am

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	53	110	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
67-64-1	Acetone	12	CCV-E, ICV-E, SCAL- E	ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
107-02-8	Acrolein	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
71-43-2	Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-25-2	Bromoform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS



Sample Information

Client Sample ID: SB05_21-23

York Sample ID: 15J0461-04

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 11:00 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
67-66-3	Chloroform	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-09-2	Methylene chloride	5.9	CCV-E, J	ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 14:16	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 14:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS



Sample Information

Client Sample ID: SB05_21-23

York Sample ID: 15J0461-04

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 11:00 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
100-42-5	Styrene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
108-88-3	Toluene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.6	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:16	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.9 %			77-125						
2037-26-5	Surrogate: Toluene-d8	109 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	115 %			76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 11:21	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 11:21	KH



Sample Information

Client Sample ID: SB05_21-23

York Sample ID: 15J0461-04

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 11:00 am	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 11:21	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH



Sample Information

Client Sample ID: SB05_21-23

York Sample ID: 15J0461-04

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 11:00 am	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-02-7	4-Nitrophenol	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
83-32-9	Acenaphthene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
98-86-2	Acetophenone	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
62-53-3	Aniline	ND		ug/kg dry	281	562	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
120-12-7	Anthracene	85.3	J	ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
1912-24-9	Atrazine	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
92-87-5	Benzidine	ND		ug/kg dry	281	562	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/19/2015 11:21	KH
56-55-3	Benzo(a)anthracene	248		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
50-32-8	Benzo(a)pyrene	195		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
205-99-2	Benzo(b)fluoranthene	172		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
191-24-2	Benzo(g,h,i)perylene	137	J	ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
207-08-9	Benzo(k)fluoranthene	156		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
65-85-0	Benzoic acid	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
105-60-2	Caprolactam	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
86-74-8	Carbazole	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH



Sample Information

Client Sample ID: SB05_21-23

York Sample ID: 15J0461-04

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 11:00 am	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	239		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
206-44-0	Fluoranthene	515		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
86-73-7	Fluorene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
193-39-5	Indeno(1,2,3-cd)pyrene	125	J	ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
78-59-1	Isophorone	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
91-20-3	Naphthalene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:21	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
85-01-8	Phenanthrene	352		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
108-95-2	Phenol	ND		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH



Sample Information

Client Sample ID: SB05_21-23

York Sample ID: 15J0461-04

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 11:00 am	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	486		ug/kg dry	70.4	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:21	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	35.6 %	10-95								
4165-62-2	Surrogate: Phenol-d5	37.4 %	10-107								
4165-60-0	Surrogate: Nitrobenzene-d5	33.6 %	10-95								
321-60-8	Surrogate: 2-Fluorobiphenyl	41.5 %	10-97								
118-79-6	Surrogate: 2,4,6-Tribromophenol	22.7 %	10-103								
1718-51-0	Surrogate: Terphenyl-d14	35.7 %	19-99								

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.41	7.41	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
72-20-8	Endrin	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 21:28	AMC



Sample Information

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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	9.26	9.26	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:28	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	93.7	93.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 21:28	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	46.0 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	46.5 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:35	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:35	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:35	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:35	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:35	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:35	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 03:35	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 03:35	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	64.2 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	61.8 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	22.4	22.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:32	AMC



Sample Information

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Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.4	22.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:32	AMC
94-75-7	2,4-D	ND		ug/kg dry	22.4	22.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:32	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 102 %				30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6270		mg/kg dry	5.61	5.61	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.561	0.561	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-38-2	Arsenic	5.20		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-39-3	Barium	205		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-43-9	Cadmium	0.367		mg/kg dry	0.337	0.337	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-70-2	Calcium	44100		mg/kg dry	0.561	0.561	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-47-3	Chromium	20.3		mg/kg dry	0.561	0.561	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-48-4	Cobalt	5.73		mg/kg dry	0.561	0.561	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-50-8	Copper	58.7		mg/kg dry	0.561	0.561	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7439-89-6	Iron	11300		mg/kg dry	2.24	2.24	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7439-92-1	Lead	290		mg/kg dry	0.337	0.337	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7439-95-4	Magnesium	5670		mg/kg dry	5.61	5.61	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7439-96-5	Manganese	425		mg/kg dry	0.561	0.561	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-02-0	Nickel	22.9		mg/kg dry	0.561	0.561	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-09-7	Potassium	1070		mg/kg dry	5.61	5.61	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD



Sample Information

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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	1.16		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-22-4	Silver	ND		mg/kg dry	0.561	0.561	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-23-5	Sodium	317		mg/kg dry	11.2	11.2	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-62-2	Vanadium	22.7		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD
7440-66-6	Zinc	159		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:33	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.153		mg/kg dry	0.0337	0.0337	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/15/2015 08:33	10/15/2015 13:53	KV

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	450		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/12/2015 18:53	10/12/2015 18:53	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.1		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/13/2015 11:39	10/14/2015 13:02	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.393	0.561	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/14/2015 08:51	10/14/2015 14:27	SC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB05_21-23

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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	20.3		mg/kg	0.250	0.500	1	Calculation	10/19/2015 15:43	10/19/2015 15:50	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.561	0.561	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/13/2015 09:30	10/13/2015 15:31	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	9.91		pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/12/2015 18:58	10/12/2015 18:58	KK

Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:00 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
79-00-5	1,1,2-Trichloroethane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:00 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
106-93-4	1,2-Dibromoethane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
78-87-5	1,2-Dichloropropane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	63	130	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
78-93-3	2-Butanone	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
591-78-6	2-Hexanone	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
108-10-1	4-Methyl-2-pentanone	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
67-64-1	Acetone	9.1	CCV-E, ICV-E, SCAL-E, J	ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
107-02-8	Acrolein	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
71-43-2	Benzene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-27-4	Bromodichloromethane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-25-2	Bromoform	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
74-83-9	Bromomethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:00 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-00-3	Chloroethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
67-66-3	Chloroform	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
74-87-3	Chloromethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
110-82-7	Cyclohexane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
124-48-1	Dibromochloromethane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
74-95-3	Dibromomethane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
98-82-8	Isopropylbenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
79-20-9	Methyl acetate	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
108-87-2	Methylcyclohexane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-09-2	Methylene chloride	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
95-47-6	o-Xylene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 14:51	SS
179601-23-1	p- & m- Xylenes	ND	IS-LO	ug/kg dry	6.3	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 14:51	SS
99-87-6	p-Isopropyltoluene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:00 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	6.3	13	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
127-18-4	Tetrachloroethylene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
108-88-3	Toluene	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 14:51	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
79-01-6	Trichloroethylene	5.9	IS-LO, J	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-69-4	Trichlorofluoromethane	ND	IS-LO	ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.2	6.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.5	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 14:51	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	133 %	S-04	77-125							
2037-26-5	Surrogate: Toluene-d8	146 %	S-04	85-120							
460-00-4	Surrogate: p-Bromofluorobenzene	129 %		76-130							

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	137	274	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 22:24	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 22:24	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 22:24	KH



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 12:00 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	137	274	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	137	274	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	137	274	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	137	274	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	137	274	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	137	274	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	137	274	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 12:00 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	97.6	J	ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
98-86-2	Acetophenone	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
62-53-3	Aniline	ND		ug/kg dry	275	549	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
120-12-7	Anthracene	274		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
1912-24-9	Atrazine	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
92-87-5	Benzidine	ND		ug/kg dry	275	549	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/16/2015 22:24	KH
56-55-3	Benzo(a)anthracene	1140		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
50-32-8	Benzo(a)pyrene	806		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
205-99-2	Benzo(b)fluoranthene	718		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
191-24-2	Benzo(g,h,i)perylene	487		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
207-08-9	Benzo(k)fluoranthene	707		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
65-85-0	Benzoic acid	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
105-60-2	Caprolactam	ND		ug/kg dry	137	274	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
86-74-8	Carbazole	113	J	ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
218-01-9	Chrysene	1080		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

York Project (SDG) No.

Client Project ID

Matrix

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15J0461

170370001

Soil

October 12, 2015 12:00 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	175		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
206-44-0	Fluoranthene	1710		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
86-73-7	Fluorene	82.2	J	ug/kg dry	68.7	137	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
193-39-5	Indeno(1,2,3-cd)pyrene	482		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
78-59-1	Isophorone	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
91-20-3	Naphthalene	149		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 22:24	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
85-01-8	Phenanthrene	942		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
108-95-2	Phenol	ND		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH
129-00-0	Pyrene	1700		ug/kg dry	68.7	137	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 22:24	KH



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:00 pm	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	35.4 %			10-95						
4165-62-2	Surrogate: Phenol-d5	39.4 %			10-107						
4165-60-0	Surrogate: Nitrobenzene-d5	35.4 %			10-95						
321-60-8	Surrogate: 2-Fluorobiphenyl	39.0 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	23.5 %			10-103						
1718-51-0	Surrogate: Terphenyl-d14	45.0 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.24	7.24	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
72-20-8	Endrin	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 12:00 pm	10/12/2015

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-44-8	Heptachlor	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.81	1.81	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	9.04	9.04	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:44	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	91.5	91.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 21:44	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	44.3 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	45.9 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 04:05	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 04:05	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 04:05	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 04:05	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 04:05	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 04:05	AMC
11096-82-5	Aroclor 1260	0.0485		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 04:05	AMC
1336-36-3	* Total PCBs	0.0485		mg/kg dry	0.0183	0.0183	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 04:05	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	71.6 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	70.5 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.9	21.9	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:44	AMC



Sample Information

Client Sample ID: SB09_0-2

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15J0461

170370001

Soil

October 12, 2015 12:00 pm

10/12/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.9	21.9	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:44	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.9	21.9	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:44	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 99.0 %)				30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	9710		mg/kg dry	5.48	5.48	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.548	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-38-2	Arsenic	6.17		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-39-3	Barium	259		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.110	0.110	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-43-9	Cadmium	1.09		mg/kg dry	0.329	0.329	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-70-2	Calcium	36100		mg/kg dry	0.548	5.48	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-47-3	Chromium	30.8		mg/kg dry	0.548	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-48-4	Cobalt	11.0		mg/kg dry	0.548	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-50-8	Copper	63.8		mg/kg dry	0.548	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7439-89-6	Iron	17000		mg/kg dry	2.19	2.19	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7439-92-1	Lead	340		mg/kg dry	0.329	0.329	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7439-95-4	Magnesium	8110		mg/kg dry	5.48	5.48	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7439-96-5	Manganese	330		mg/kg dry	0.548	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-02-0	Nickel	33.0		mg/kg dry	0.548	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-09-7	Potassium	886		mg/kg dry	5.48	5.48	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 12:00 pm

10/12/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-22-4	Silver	ND		mg/kg dry	0.548	0.548	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-23-5	Sodium	1030		mg/kg dry	11.0	11.0	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-62-2	Vanadium	45.6		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD
7440-66-6	Zinc	302		mg/kg dry	1.10	1.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:37	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.326		mg/kg dry	0.0329	0.0329	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/15/2015 08:33	10/15/2015 14:02	KV

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	440		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/12/2015 18:53	10/12/2015 18:53	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.2		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/13/2015 11:39	10/14/2015 13:02	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.384	0.548	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/14/2015 08:51	10/14/2015 14:27	SC

Chromium, Trivalent

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB09_0-2

York Sample ID: 15J0461-05

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:00 pm	<u>Date Received</u> 10/12/2015
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	30.8		mg/kg	0.250	0.500	1	Calculation	10/19/2015 15:43	10/19/2015 15:50	PAM

Certifications:

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.548	0.548	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/13/2015 09:30	10/13/2015 15:31	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	9.67		pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/12/2015 18:58	10/12/2015 18:58	KK

Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:15 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:15 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	57	110	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
67-64-1	Acetone	15	CCV-E, ICV-E, SCAL-E	ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
107-02-8	Acrolein	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
71-43-2	Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-25-2	Bromoform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:15 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
67-66-3	Chloroform	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-09-2	Methylene chloride	7.9	CCV-E, J	ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 15:25	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/19/2015 08:38	10/19/2015 15:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 12:15 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
108-88-3	Toluene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 08:38	10/19/2015 15:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.9	5.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.6	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 08:38	10/19/2015 15:25	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	119 %	77-125								
2037-26-5	Surrogate: Toluene-d8	95.6 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	110 %	76-130								

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 19:18	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 19:18	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 19:18	KH



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:15 pm	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0461	170370001	Soil	October 12, 2015 12:15 pm	10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
98-86-2	Acetophenone	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
62-53-3	Aniline	ND		ug/kg dry	259	518	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
120-12-7	Anthracene	121	J	ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
1912-24-9	Atrazine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
92-87-5	Benzidine	ND		ug/kg dry	259	518	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/16/2015 19:18	KH
56-55-3	Benzo(a)anthracene	140		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
50-32-8	Benzo(a)pyrene	102	J	ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
205-99-2	Benzo(b)fluoranthene	79.6	J	ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
207-08-9	Benzo(k)fluoranthene	97.1	J	ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
65-85-0	Benzoic acid	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
105-60-2	Caprolactam	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
86-74-8	Carbazole	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
218-01-9	Chrysene	128	J	ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 12:15 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
206-44-0	Fluoranthene	386		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
86-73-7	Fluorene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
78-59-1	Isophorone	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
91-20-3	Naphthalene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:18	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
85-01-8	Phenanthrene	398		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
108-95-2	Phenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH
129-00-0	Pyrene	272		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:18	KH

Surrogate Recoveries

Result

Acceptance Range



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 12:15 pm	10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
367-12-4	Surrogate: 2-Fluorophenol	34.8 %			10-95						
4165-62-2	Surrogate: Phenol-d5	38.1 %			10-107						
4165-60-0	Surrogate: Nitrobenzene-d5	34.5 %			10-95						
321-60-8	Surrogate: 2-Fluorobiphenyl	39.6 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	28.4 %			10-103						
1718-51-0	Surrogate: Terphenyl-d14	36.4 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	6.82	6.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
72-20-8	Endrin	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 21:59	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:15 pm	<u>Date Received</u> 10/12/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.71	1.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.53	8.53	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 21:59	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	86.3	86.3	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 21:59	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	46.3 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	62.1 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 05:03	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 05:03	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 05:03	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 05:03	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 05:03	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 05:03	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 05:03	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 05:03	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	77.6 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	79.2 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	20.7	20.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:59	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	20.7	20.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:59	AMC
94-75-7	2,4-D	ND		ug/kg dry	20.7	20.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 16:59	AMC



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 12:15 pm	10/12/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 116 %				30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	8980		mg/kg dry	5.17	5.17	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.517	0.517	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-38-2	Arsenic	1.53		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-39-3	Barium	87.0		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.103	0.103	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.310	0.310	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-70-2	Calcium	3070		mg/kg dry	0.517	5.17	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-47-3	Chromium	18.1		mg/kg dry	0.517	0.517	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-48-4	Cobalt	7.46		mg/kg dry	0.517	0.517	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-50-8	Copper	15.2		mg/kg dry	0.517	0.517	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7439-89-6	Iron	10300		mg/kg dry	2.07	2.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7439-92-1	Lead	4.34		mg/kg dry	0.310	0.310	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7439-95-4	Magnesium	3490		mg/kg dry	5.17	5.17	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7439-96-5	Manganese	250		mg/kg dry	0.517	0.517	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-02-0	Nickel	74.5		mg/kg dry	0.517	0.517	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-09-7	Potassium	1340		mg/kg dry	5.17	5.17	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-22-4	Silver	ND		mg/kg dry	0.517	0.517	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 22:55	ALD



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 12:15 pm

10/12/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	419		mg/kg dry	10.3	10.3	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-62-2	Vanadium	17.3		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD
7440-66-6	Zinc	26.2		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 22:55	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0310	0.0310	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/15/2015 08:34	10/15/2015 15:34	ALD

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	470		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/12/2015 18:53	10/12/2015 18:53	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	96.8		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/13/2015 11:39	10/14/2015 13:02	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.362	0.517	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/14/2015 08:51	10/14/2015 14:27	SC

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	18.1		mg/kg	0.250	0.500	1	Calculation Certifications:	10/19/2015 15:43	10/19/2015 15:50	PAM



Sample Information

Client Sample ID: SB09_17-19

York Sample ID: 15J0461-06

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 15J0461, 170370001, Soil, October 12, 2015 12:15 pm, 10/12/2015

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 57-12-5, Cyanide, total, ND, mg/kg dry, 0.517, 0.517, 1, EPA 9014/9010C, 10/13/2015 09:30, 10/13/2015 15:31, AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: pH, 9.20, pH units, 0.500, 1, EPA 9045D, 10/12/2015 18:58, 10/12/2015 18:58, KK

Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 15J0461, 170370001, Soil, October 12, 2015 12:30 pm, 10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows for various organics like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc.



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:30 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	50	100	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
78-93-3	2-Butanone	8.6	CCV-E, SCAL-E	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
67-64-1	Acetone	ND	SCAL-E	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
107-02-8	Acrolein	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
75-25-2	Bromoform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 12:30 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
75-09-2	Methylene chloride	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/17/2015 08:03	10/17/2015 19:08	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/17/2015 08:03	10/17/2015 19:08	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
100-42-5	Styrene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 12:30 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:08	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:08	BK

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.3 %	77-125
2037-26-5	Surrogate: Toluene-d8	109 %	85-120
460-00-4	Surrogate: p-Bromofluorobenzene	102 %	76-130

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	142	283	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 19:49	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 19:49	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 19:49	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	142	283	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:30 pm	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	142	283	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
91-57-6	2-Methylnaphthalene	211		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	142	283	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	142	283	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	142	283	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	142	283	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	142	283	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
83-32-9	Acenaphthene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
98-86-2	Acetophenone	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 12:30 pm	10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		ug/kg dry	284	568	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
120-12-7	Anthracene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
1912-24-9	Atrazine	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
92-87-5	Benzidine	ND		ug/kg dry	284	568	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/16/2015 19:49	KH
56-55-3	Benzo(a)anthracene	119	J	ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
205-99-2	Benzo(b)fluoranthene	95.2	J	ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
65-85-0	Benzoic acid	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
105-60-2	Caprolactam	ND		ug/kg dry	142	283	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
86-74-8	Carbazole	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
218-01-9	Chrysene	130	J	ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 12:30 pm	10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
206-44-0	Fluoranthene	203		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
86-73-7	Fluorene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
78-59-1	Isophorone	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
91-20-3	Naphthalene	181		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 19:49	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
85-01-8	Phenanthrene	207		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
108-95-2	Phenol	ND		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH
129-00-0	Pyrene	161		ug/kg dry	71.0	142	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 19:49	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: 2-Fluorophenol	34.8 %	10-95
4165-62-2	Surrogate: Phenol-d5	41.5 %	10-107
4165-60-0	Surrogate: Nitrobenzene-d5	40.9 %	10-95
321-60-8	Surrogate: 2-Fluorobiphenyl	46.1 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	6.20 %	10-103



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 12:30 pm	10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	Surrogate: Terphenyl-d14	39.2 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
72-55-9	4,4'-DDE	4.12		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
50-29-3	4,4'-DDT	21.9		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.48	7.48	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
72-20-8	Endrin	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 22:14	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.87	1.87	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	9.35	9.35	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:14	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	94.6	94.6	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 22:14	AMC



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 12:30 pm	10/12/2015

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	65.5 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	75.9 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:01	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:01	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:01	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:01	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:01	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0189	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:01	AMC
11096-82-5	Aroclor 1260	0.101		mg/kg dry	0.0189	0.0189	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:01	AMC
1336-36-3	* Total PCBs	0.101		mg/kg dry	0.0189	0.0189	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 06:01	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	70.6 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	71.5 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	22.7	22.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 17:15	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.7	22.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 17:15	AMC
94-75-7	2,4-D	ND		ug/kg dry	22.7	22.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/15/2015 17:15	AMC
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	90.8 %			30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:30 pm	<u>Date Received</u> 10/12/2015
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Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7330		mg/kg dry	5.67	5.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.567	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-38-2	Arsenic	6.58		mg/kg dry	1.13	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-39-3	Barium	152		mg/kg dry	1.13	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.113	0.113	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-43-9	Cadmium	0.963		mg/kg dry	0.340	0.340	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-70-2	Calcium	11700		mg/kg dry	0.567	5.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-47-3	Chromium	13.1		mg/kg dry	0.567	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-48-4	Cobalt	8.05		mg/kg dry	0.567	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-50-8	Copper	71.8		mg/kg dry	0.567	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7439-89-6	Iron	17400		mg/kg dry	2.27	2.27	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7439-92-1	Lead	99.5		mg/kg dry	0.340	0.340	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7439-95-4	Magnesium	2410		mg/kg dry	5.67	5.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7439-96-5	Manganese	118		mg/kg dry	0.567	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-02-0	Nickel	30.5		mg/kg dry	0.567	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-09-7	Potassium	734		mg/kg dry	5.67	5.67	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7782-49-2	Selenium	1.75		mg/kg dry	1.13	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-22-4	Silver	ND		mg/kg dry	0.567	0.567	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-23-5	Sodium	902		mg/kg dry	11.3	11.3	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.13	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-62-2	Vanadium	48.5		mg/kg dry	1.13	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD
7440-66-6	Zinc	98.3		mg/kg dry	1.13	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:00	ALD



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 12:30 pm

10/12/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0984		mg/kg dry	0.0340	0.0340	1	EPA 7473	10/15/2015 08:34	10/15/2015 17:03	ALD
Certifications:									CTDOH,NJDEP,NELAC-NY10854,PADEP		

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	450		mV	-200	-200	1	ASTM 1498-08 M	10/12/2015 18:53	10/12/2015 18:53	KK
Certifications:											

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	88.2		%	0.100	0.100	1	SM 2540G	10/13/2015 11:39	10/14/2015 13:02	CLS
Certifications:									CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.397	0.567	1	EPA 7196A	10/14/2015 08:51	10/14/2015 14:27	SC
Certifications:									NJDEP,CTDOH,NELAC-NY10854		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	13.1		mg/kg	0.250	0.500	1	Calculation	10/19/2015 15:43	10/19/2015 15:50	PAM
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.567	0.567	1	EPA 9014/9010C	10/13/2015 09:30	10/13/2015 15:31	AD
Certifications:									NELAC-NY10854,CTDOH,NJDEP		

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	9.98		pH units		0.500	1	EPA 9045D	10/12/2015 18:58	10/12/2015 18:58	KK
Certifications:									NELAC-NY10854,CTDOH		



Sample Information

Client Sample ID: SB08_0-2

York Sample ID: 15J0461-07

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 12:30 pm	<u>Date Received</u> 10/12/2015
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Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:05 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK



Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:05 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	62	120	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
78-93-3	2-Butanone	9.8	CCV-E, SCAL- E	ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
67-64-1	Acetone	9.8	CCV-E, ICV-E, SCAL- E, J	ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
107-02-8	Acrolein	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
71-43-2	Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
110-82-7	Cyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK



Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:05 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
79-20-9	Methyl acetate	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-09-2	Methylene chloride	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/17/2015 08:03	10/17/2015 19:50	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/17/2015 08:03	10/17/2015 19:50	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
100-42-5	Styrene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
108-88-3	Toluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 19:50	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK



Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 1:05 pm	10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.3	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 19:50	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %			77-125						
2037-26-5	Surrogate: Toluene-d8	109 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	100 %			76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 20:20	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 20:20	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/16/2015 20:20	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH



Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:05 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
83-32-9	Acenaphthene	96.4	J	ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
98-86-2	Acetophenone	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
62-53-3	Aniline	ND		ug/kg dry	268	537	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
120-12-7	Anthracene	235		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
1912-24-9	Atrazine	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH



Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:05 pm	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND		ug/kg dry	268	537	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/16/2015 20:20	KH
56-55-3	Benzo(a)anthracene	514		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
50-32-8	Benzo(a)pyrene	267		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
205-99-2	Benzo(b)fluoranthene	379		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
191-24-2	Benzo(g,h,i)perylene	108	J	ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
207-08-9	Benzo(k)fluoranthene	277		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
65-85-0	Benzoic acid	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
105-60-2	Caprolactam	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
86-74-8	Carbazole	126	J	ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
218-01-9	Chrysene	453		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
53-70-3	Dibenzo(a,h)anthracene	81.4	J	ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
132-64-9	Dibenzofuran	85.7	J	ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
206-44-0	Fluoranthene	1290		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH



Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:05 pm	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	135		ug/kg dry	67.1	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
193-39-5	Indeno(1,2,3-cd)pyrene	130	J	ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
78-59-1	Isophorone	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
91-20-3	Naphthalene	102	J	ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/16/2015 20:20	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
85-01-8	Phenanthrene	1140		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
108-95-2	Phenol	ND		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
129-00-0	Pyrene	898		ug/kg dry	67.1	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/16/2015 20:20	KH
Surrogate Recoveries		Result		Acceptance Range							
367-12-4	Surrogate: 2-Fluorophenol	30.3 %		10-95							
4165-62-2	Surrogate: Phenol-d5	33.6 %		10-107							
4165-60-0	Surrogate: Nitrobenzene-d5	30.0 %		10-95							
321-60-8	Surrogate: 2-Fluorobiphenyl	32.8 %		10-97							
118-79-6	Surrogate: 2,4,6-Tribromophenol	2.63 %	S-08	10-103							
1718-51-0	Surrogate: Terphenyl-d14	33.0 %		19-99							

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:05 pm	<u>Date Received</u> 10/12/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
72-55-9	4,4'-DDE	14.8		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
50-29-3	4,4'-DDT	36.2		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.07	7.07	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
72-20-8	Endrin	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 22:29	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.83	8.83	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:29	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	89.4	89.4	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 22:29	AMC
	Surrogate Recoveries	Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	39.0 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	61.7 %			30-140						



Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:05 pm	<u>Date Received</u> 10/12/2015
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:31	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:31	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:31	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:31	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:31	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:31	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 06:31	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 06:31	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	68.7 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	76.8 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.4	21.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/16/2015 13:49	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.4	21.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/16/2015 13:49	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.4	21.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/16/2015 13:49	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L)	87.8 %			30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5590		mg/kg dry	5.35	5.35	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.535	0.535	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-38-2	Arsenic	5.22		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:04	ALD



Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:05 pm

10/12/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	747		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.107	0.107	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-43-9	Cadmium	0.654		mg/kg dry	0.321	0.321	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-70-2	Calcium	46300		mg/kg dry	0.535	5.35	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-47-3	Chromium	28.5		mg/kg dry	0.535	0.535	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-48-4	Cobalt	7.83		mg/kg dry	0.535	0.535	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-50-8	Copper	47.7		mg/kg dry	0.535	0.535	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7439-89-6	Iron	9900		mg/kg dry	2.14	2.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7439-92-1	Lead	1020		mg/kg dry	0.321	0.321	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7439-95-4	Magnesium	3660		mg/kg dry	5.35	5.35	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7439-96-5	Manganese	236		mg/kg dry	0.535	0.535	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-02-0	Nickel	33.1		mg/kg dry	0.535	0.535	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-09-7	Potassium	862		mg/kg dry	5.35	5.35	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7782-49-2	Selenium	1.13		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-22-4	Silver	ND		mg/kg dry	0.535	0.535	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-23-5	Sodium	485		mg/kg dry	10.7	10.7	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-62-2	Vanadium	39.2		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD
7440-66-6	Zinc	813		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:04	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:05 pm

10/12/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.273		mg/kg dry	0.0321	0.0321	1	EPA 7473	10/15/2015 08:34	10/15/2015 17:12	ALD
Certifications:									CTDOH,NJDEP,NELAC-NY10854,PADEP		

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	440		mV	-200	-200	1	ASTM 1498-08 M	10/12/2015 18:53	10/12/2015 18:53	KK
Certifications:											

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.4		%	0.100	0.100	1	SM 2540G	10/13/2015 11:39	10/14/2015 13:02	CLS
Certifications:									CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.375	0.535	1	EPA 7196A	10/14/2015 08:51	10/14/2015 14:27	SC
Certifications:									NJDEP,CTDOH,NELAC-NY10854		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	28.5		mg/kg	0.250	0.500	1	Calculation	10/19/2015 15:43	10/19/2015 15:50	PAM
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	0.857		mg/kg dry	0.535	0.535	1	EPA 9014/9010C	10/13/2015 09:30	10/13/2015 15:31	AD
Certifications:									NELAC-NY10854,CTDOH,NJDEP		

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB08_16-18

York Sample ID: 15J0461-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 1:05 pm	10/12/2015

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	10.4		pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/12/2015 18:58	10/12/2015 18:58	KK

Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 1:15 pm	10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK



Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:15 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	47	94	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
78-93-3	2-Butanone	7.4	CCV-E, SCAL-E	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
67-64-1	Acetone	14	CCV-E, ICV-E, SCAL-E	ug/kg dry	4.7	9.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
107-02-8	Acrolein	ND		ug/kg dry	4.7	9.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
71-43-2	Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK



Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:15 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.7	9.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/17/2015 08:03	10/17/2015 20:31	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.7	9.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/17/2015 08:03	10/17/2015 20:31	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
100-42-5	Styrene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
108-88-3	Toluene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK



Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:15 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 20:31	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.1	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 20:31	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.2 %			77-125						
2037-26-5	Surrogate: Toluene-d8	107 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	101 %			76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 11:52	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 11:52	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 11:52	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH



Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:15 pm	<u>Date Received</u> 10/12/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
83-32-9	Acenaphthene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
98-86-2	Acetophenone	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
62-53-3	Aniline	ND		ug/kg dry	259	517	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
120-12-7	Anthracene	188		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH



Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

York Project (SDG) No.

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15J0461

170370001

Soil

October 12, 2015 1:15 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1912-24-9	Atrazine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
92-87-5	Benzidine	ND		ug/kg dry	259	517	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/19/2015 11:52	KH
56-55-3	Benzo(a)anthracene	641		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
50-32-8	Benzo(a)pyrene	542		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
205-99-2	Benzo(b)fluoranthene	405		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
191-24-2	Benzo(g,h,i)perylene	323		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
207-08-9	Benzo(k)fluoranthene	456		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
65-85-0	Benzoic acid	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
105-60-2	Caprolactam	ND		ug/kg dry	129	258	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
86-74-8	Carbazole	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
218-01-9	Chrysene	550		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH



Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

York Project (SDG) No.

Client Project ID

Matrix

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15J0461

170370001

Soil

October 12, 2015 1:15 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
206-44-0	Fluoranthene	1000		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
86-73-7	Fluorene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
193-39-5	Indeno(1,2,3-cd)pyrene	326		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
78-59-1	Isophorone	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
91-20-3	Naphthalene	104	J	ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 11:52	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
85-01-8	Phenanthrene	514		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
108-95-2	Phenol	ND		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH
129-00-0	Pyrene	756		ug/kg dry	64.8	129	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 11:52	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: 2-Fluorophenol	24.8 %	10-95
4165-62-2	Surrogate: Phenol-d5	28.4 %	10-107
4165-60-0	Surrogate: Nitrobenzene-d5	23.5 %	10-95
321-60-8	Surrogate: 2-Fluorobiphenyl	29.3 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	12.4 %	10-103
1718-51-0	Surrogate: Terphenyl-d14	29.4 %	19-99



Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:15 pm	<u>Date Received</u> 10/12/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	6.82	6.82	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
72-20-8	Endrin	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 22:44	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.70	1.70	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.52	8.52	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:44	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	86.2	86.2	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 22:44	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	Surrogate: Tetrachloro-m-xylene	35.9 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	51.3 %	30-140



Sample Information

Client Sample ID: SB04_0-2

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Soil

October 12, 2015 1:15 pm

10/12/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:00	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:00	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:00	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:00	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:00	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:00	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:00	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0172	0.0172	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 07:00	AMC

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	73.6 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	73.4 %	30-140

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	20.7	20.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/16/2015 14:05	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	20.7	20.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/16/2015 14:05	AMC
94-75-7	2,4-D	ND		ug/kg dry	20.7	20.7	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/16/2015 14:05	AMC

Surrogate Recoveries

Result

Acceptance Range

19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L)	85.0 %	30-150
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	11500		mg/kg dry	5.16	5.16	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.516	0.516	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-38-2	Arsenic	2.83		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:12	ALD



Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

York Project (SDG) No.

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Soil

October 12, 2015 1:15 pm

10/12/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	68.3		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.103	0.103	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-43-9	Cadmium	1.20		mg/kg dry	0.310	0.310	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-70-2	Calcium	20800		mg/kg dry	0.516	5.16	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-47-3	Chromium	27.5		mg/kg dry	0.516	0.516	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-48-4	Cobalt	13.3		mg/kg dry	0.516	0.516	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-50-8	Copper	78.8		mg/kg dry	0.516	0.516	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7439-89-6	Iron	21900		mg/kg dry	2.07	2.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7439-92-1	Lead	158		mg/kg dry	0.310	0.310	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7439-95-4	Magnesium	9890		mg/kg dry	5.16	5.16	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7439-96-5	Manganese	314		mg/kg dry	0.516	0.516	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-02-0	Nickel	29.4		mg/kg dry	0.516	0.516	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-09-7	Potassium	465		mg/kg dry	5.16	5.16	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7782-49-2	Selenium	1.15		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-22-4	Silver	ND		mg/kg dry	0.516	0.516	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-23-5	Sodium	1660		mg/kg dry	10.3	10.3	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-62-2	Vanadium	68.4		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD
7440-66-6	Zinc	162		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:12	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:15 pm

10/12/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.159		mg/kg dry	0.0310	0.0310	1	EPA 7473	10/15/2015 08:34	10/15/2015 17:21	ALD
Certifications:									CTDOH,NJDEP,NELAC-NY10854,PADEP		

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	450		mV	-200	-200	1	ASTM 1498-08 M	10/12/2015 18:53	10/12/2015 18:53	KK
Certifications:											

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	96.8		%	0.100	0.100	1	SM 2540G	10/13/2015 11:39	10/14/2015 13:02	CLS
Certifications:									CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.362	0.516	1	EPA 7196A	10/14/2015 08:51	10/14/2015 14:27	SC
Certifications:									NJDEP,CTDOH,NELAC-NY10854		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	27.5		mg/kg	0.250	0.500	1	Calculation	10/19/2015 15:43	10/19/2015 15:50	PAM
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.516	0.516	1	EPA 9014/9010C	10/13/2015 09:30	10/13/2015 15:31	AD
Certifications:									NELAC-NY10854,CTDOH,NJDEP		

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB04_0-2

York Sample ID: 15J0461-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 1:15 pm	10/12/2015

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	10.3		pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/12/2015 18:58	10/12/2015 18:58	KK

Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 1:30 pm	10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK



Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:30 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	51	100	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
78-93-3	2-Butanone	3.6	CCV-E, SCAL-E, J	ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
67-64-1	Acetone	5.9	CCV-E, ICV-E, SCAL-E, J	ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
107-02-8	Acrolein	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
71-43-2	Benzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-25-2	Bromoform	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK



Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:30 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-09-2	Methylene chloride	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/17/2015 08:03	10/17/2015 21:13	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/17/2015 08:03	10/17/2015 21:13	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
100-42-5	Styrene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
108-88-3	Toluene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK



Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

York Project (SDG) No.

Client Project ID

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Collection Date/Time

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15J0461

170370001

Soil

October 12, 2015 1:30 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/17/2015 08:03	10/17/2015 21:13	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.6	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/17/2015 08:03	10/17/2015 21:13	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.5 %			77-125						
2037-26-5	Surrogate: Toluene-d8	108 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	99.5 %			76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 12:23	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 12:23	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854	10/15/2015 08:49	10/19/2015 12:23	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH



Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

York Project (SDG) No.
15J0461

Client Project ID
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October 12, 2015 1:30 pm

Date Received
10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
83-32-9	Acenaphthene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
208-96-8	Acenaphthylene	109	J	ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
98-86-2	Acetophenone	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
62-53-3	Aniline	ND		ug/kg dry	269	537	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
120-12-7	Anthracene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH



Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:30 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1912-24-9	Atrazine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
92-87-5	Benzidine	ND		ug/kg dry	269	537	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/15/2015 08:49	10/19/2015 12:23	KH
56-55-3	Benzo(a)anthracene	443		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
50-32-8	Benzo(a)pyrene	421		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
205-99-2	Benzo(b)fluoranthene	415		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
191-24-2	Benzo(g,h,i)perylene	342		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
207-08-9	Benzo(k)fluoranthene	403		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
65-85-0	Benzoic acid	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
105-60-2	Caprolactam	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
86-74-8	Carbazole	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
218-01-9	Chrysene	367		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH



Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:30 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
206-44-0	Fluoranthene	459		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
86-73-7	Fluorene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
193-39-5	Indeno(1,2,3-cd)pyrene	299		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
78-59-1	Isophorone	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
91-20-3	Naphthalene	85.8	J	ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/15/2015 08:49	10/19/2015 12:23	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
85-01-8	Phenanthrene	224		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
108-95-2	Phenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH
129-00-0	Pyrene	447		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 08:49	10/19/2015 12:23	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: 2-Fluorophenol	29.3 %	10-95
4165-62-2	Surrogate: Phenol-d5	31.3 %	10-107
4165-60-0	Surrogate: Nitrobenzene-d5	29.0 %	10-95
321-60-8	Surrogate: 2-Fluorobiphenyl	31.9 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	19.8 %	10-103
1718-51-0	Surrogate: Terphenyl-d14	29.2 %	19-99



Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:30 pm	<u>Date Received</u> 10/12/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.08	7.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
72-20-8	Endrin	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 22:59	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.84	8.84	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 22:59	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	89.5	89.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:26	10/16/2015 22:59	AMC

Surrogate Recoveries

	Result	Acceptance Range
877-09-8 <i>Surrogate: Tetrachloro-m-xylene</i>	54.6 %	30-140
2051-24-3 <i>Surrogate: Decachlorobiphenyl</i>	52.9 %	30-140



Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 12, 2015 1:30 pm	<u>Date Received</u> 10/12/2015
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:29	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:29	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:29	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:29	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:29	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:29	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/14/2015 13:26	10/16/2015 07:29	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications:	10/14/2015 13:26	10/16/2015 07:29	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	88.1 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	77.8 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.4	21.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/16/2015 14:21	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.4	21.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/16/2015 14:21	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.4	21.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/15/2015 05:09	10/16/2015 14:21	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L)	81.0 %			30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5160		mg/kg dry	5.36	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-38-2	Arsenic	2.40		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:17	ALD



Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

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Matrix

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170370001

Soil

October 12, 2015 1:30 pm

10/12/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	41.2		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.107	0.107	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.322	0.322	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-70-2	Calcium	3140		mg/kg dry	0.536	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-47-3	Chromium	11.6		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-48-4	Cobalt	6.73		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-50-8	Copper	11.1		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7439-89-6	Iron	12800		mg/kg dry	2.14	2.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7439-92-1	Lead	10.2		mg/kg dry	0.322	0.322	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7439-95-4	Magnesium	2690		mg/kg dry	5.36	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7439-96-5	Manganese	359		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-02-0	Nickel	48.3		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-09-7	Potassium	1230		mg/kg dry	5.36	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-22-4	Silver	ND		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-23-5	Sodium	232		mg/kg dry	10.7	10.7	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-62-2	Vanadium	18.9		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD
7440-66-6	Zinc	29.7		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/13/2015 14:21	10/13/2015 23:17	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Soil

October 12, 2015 1:30 pm

10/12/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.328		mg/kg dry	0.0322	0.0322	1	EPA 7473	10/15/2015 08:34	10/15/2015 17:30	ALD
Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP											

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	470		mV	-200	-200	1	ASTM 1498-08 M	10/12/2015 18:53	10/12/2015 18:53	KK
Certifications:											

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.3		%	0.100	0.100	1	SM 2540G	10/13/2015 11:39	10/14/2015 13:02	CLS
Certifications: CTDOH											

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.375	0.536	1	EPA 7196A	10/15/2015 07:33	10/16/2015 15:17	SC
Certifications: NJDEP,CTDOH,NELAC-NY10854											

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	11.6		mg/kg	0.250	0.500	1	Calculation	10/19/2015 15:43	10/19/2015 15:50	PAM
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.536	0.536	1	EPA 9014/9010C	10/15/2015 08:36	10/15/2015 14:46	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP											

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB04_16-18

York Sample ID: 15J0461-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Soil	October 12, 2015 1:30 pm	10/12/2015

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	8.74		pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/12/2015 18:58	10/12/2015 18:58	KK

Sample Information

Client Sample ID: SOTB_101215

York Sample ID: 15J0461-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0461	170370001	Water	October 12, 2015 12:00 am	10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS



Sample Information

Client Sample ID: SOTB_101215

York Sample ID: 15J0461-11

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 12, 2015 12:00 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
67-64-1	Acetone	1.8	CCV-E, SCAL- E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS



Sample Information

Client Sample ID: SOTB_101215

York Sample ID: 15J0461-11

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 12, 2015 12:00 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-09-2	Methylene chloride	4.3		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/16/2015 16:45	10/17/2015 10:15	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/16/2015 16:45	10/17/2015 10:15	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS



Sample Information

Client Sample ID: SOTB_101215

York Sample ID: 15J0461-11

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 12, 2015 12:00 am	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/16/2015 16:45	10/17/2015 10:15	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %			69-130						
2037-26-5	Surrogate: Toluene-d8	97.7 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	93.0 %			79-122						

Sample Information

Client Sample ID: SOFB01_101215

York Sample ID: 15J0461-12

<u>York Project (SDG) No.</u> 15J0461	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 12, 2015 2:00 pm	<u>Date Received</u> 10/12/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS



Sample Information

Client Sample ID: SOFB01_101215

York Sample ID: 15J0461-12

York Project (SDG) No.

Client Project ID

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Water

October 12, 2015 2:00 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
67-64-1	Acetone	1.0	SCAL-E, CCV-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS



Sample Information

Client Sample ID: SOFB01_101215

York Sample ID: 15J0461-12

York Project (SDG) No.

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Water

October 12, 2015 2:00 pm

10/12/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/16/2015 16:45	10/17/2015 10:49	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/16/2015 16:45	10/17/2015 10:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS



Sample Information

Client Sample ID: SOFB01_101215

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Water

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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	2.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/16/2015 16:45	10/17/2015 10:49	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	106 %			69-130						
2037-26-5	Surrogate: Toluene-d8	101 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	96.0 %			79-122						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 08:05	10/16/2015 20:18	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 08:05	10/16/2015 20:18	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 08:05	10/16/2015 20:18	KH



Sample Information

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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
95-48-7	2-Methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH



Sample Information

Client Sample ID: SOFB01_101215

York Sample ID: 15J0461-12

York Project (SDG) No.

Client Project ID

Matrix

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15J0461

170370001

Water

October 12, 2015 2:00 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
98-86-2	Acetophenone	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
62-53-3	Aniline	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
120-12-7	Anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
1912-24-9	Atrazine	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
100-52-7	Benzaldehyde	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
92-87-5	Benzidine	ND		ug/L	12.1	24.2	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
65-85-0	Benzoic acid	ND		ug/L	30.3	60.6	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
117-81-7	Bis(2-ethylhexyl)phthalate	1.75		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
105-60-2	Caprolactam	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
86-74-8	Carbazole	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
218-01-9	Chrysene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR



Sample Information

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170370001

Water

October 12, 2015 2:00 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
132-64-9	Dibenzofuran	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
206-44-0	Fluoranthene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
86-73-7	Fluorene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0242	0.0242	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
67-72-1	Hexachloroethane	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
78-59-1	Isophorone	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
91-20-3	Naphthalene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
98-95-3	Nitrobenzene	ND		ug/L	0.303	0.303	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.606	0.606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 15:58	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.303	0.303	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
85-01-8	Phenanthrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
108-95-2	Phenol	ND		ug/L	3.03	6.06	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH
129-00-0	Pyrene	ND		ug/L	0.0606	0.0606	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:05	10/16/2015 20:18	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4 *Surrogate: 2-Fluorophenol*

33.8 %

10-65

4165-62-2 *Surrogate: Phenol-d5*

24.7 %

10-49



Sample Information

Client Sample ID: SOFB01_101215

York Sample ID: 15J0461-12

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15J0461

170370001

Water

October 12, 2015 2:00 pm

10/12/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	Surrogate: Nitrobenzene-d5	105 %	S-08		10-96						
321-60-8	Surrogate: 2-Fluorobiphenyl	91.7 %			10-93						
118-79-6	Surrogate: 2,4,6-Tribromophenol	114 %			10-128						
1718-51-0	Surrogate: Terphenyl-d14	123 %	S-08		10-100						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
72-55-9	4,4'-DDE	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
50-29-3	4,4'-DDT	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
309-00-2	Aldrin	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
319-84-6	alpha-BHC	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
319-85-7	beta-BHC	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
57-74-9	Chlordane, total	ND		ug/L	0.0640	0.0640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
319-86-8	delta-BHC	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
60-57-1	Dieldrin	ND		ug/L	0.00320	0.00320	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
959-98-8	Endosulfan I	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
33213-65-9	Endosulfan II	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
72-20-8	Endrin	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
7421-93-4	Endrin aldehyde	ND		ug/L	0.0160	0.0160	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
53494-70-5	Endrin ketone	ND		ug/L	0.0160	0.0160	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
76-44-8	Heptachlor	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC



Sample Information

Client Sample ID: SOFB01_101215

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170370001

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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/L	0.00640	0.00640	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
8001-35-2	Toxaphene	ND		ug/L	0.160	0.160	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 08:01	10/19/2015 12:40	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	46.7 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	18.1 %	GC-Sur		30-120						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0800	0.0800	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/16/2015 08:01	10/19/2015 10:57	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0800	0.0800	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/16/2015 08:01	10/19/2015 10:57	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0800	0.0800	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/16/2015 08:01	10/19/2015 10:57	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0800	0.0800	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/16/2015 08:01	10/19/2015 10:57	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0800	0.0800	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/16/2015 08:01	10/19/2015 10:57	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0800	0.0800	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/16/2015 08:01	10/19/2015 10:57	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0800	0.0800	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/16/2015 08:01	10/19/2015 10:57	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0800	0.0800	1	EPA 8082A Certifications:	10/16/2015 08:01	10/19/2015 10:57	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	40.3 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	12.6 %	GC-Sur		30-120						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 04:40	10/14/2015 20:22	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 04:40	10/14/2015 20:22	AMC
94-75-7	2,4-D	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 04:40	10/14/2015 20:22	AMC



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10/12/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 115 %				30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.056	0.056	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-36-0	Antimony	ND		mg/L	0.006	0.006	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-39-3	Barium	ND		mg/L	0.011	0.011	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-70-2	Calcium	0.078		mg/L	0.056	0.056	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-47-3	Chromium	ND		mg/L	0.006	0.006	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-48-4	Cobalt	ND		mg/L	0.006	0.006	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7439-89-6	Iron	0.061		mg/L	0.022	0.022	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7439-95-4	Magnesium	0.104		mg/L	0.056	0.056	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7439-96-5	Manganese	ND		mg/L	0.006	0.006	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-02-0	Nickel	ND		mg/L	0.006	0.006	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-09-7	Potassium	ND		mg/L	0.056	0.056	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7782-49-2	Selenium	ND		mg/L	0.011	0.011	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-22-4	Silver	ND		mg/L	0.006	0.006	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-23-5	Sodium	ND		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD



Sample Information

Client Sample ID: SOFB01_101215

York Sample ID: 15J0461-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0461

170370001

Water

October 12, 2015 2:00 pm

10/12/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		mg/L	0.006	0.006	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-62-2	Vanadium	ND		mg/L	0.011	0.011	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD
7440-66-6	Zinc	0.022		mg/L	0.011	0.011	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/19/2015 06:42	10/19/2015 20:20	ALD

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	0.0002	1	EPA 7470 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 12:49	10/19/2015 13:00	AA

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	490		mV	1.0	1.0	1	ASTM 1498-08 M Certifications:	10/12/2015 18:37	10/12/2015 18:37	KK

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND	HT-01	mg/L	0.0100	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/14/2015 10:43	10/14/2015 10:43	CLS

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	10.0	20.0	1	Calculation Certifications:	10/19/2015 15:43	10/19/2015 15:50	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP	10/14/2015 08:32	10/14/2015 14:58	AD

pH

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SOFB01_101215

York Sample ID: 15J0461-12

York Project (SDG) No.
15J0461

Client Project ID
170370001

Matrix
Water

Collection Date/Time
October 12, 2015 2:00 pm

Date Received
10/12/2015

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* pH		5.44	HT-pH	pH units		0.500	1	SM 4500 H+B Certifications: CTDOH	10/12/2015 18:37	10/12/2015 18:37	KK



Analytical Batch Summary

Batch ID: BJ50572 **Preparation Method:** Analysis Preparation **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/12/15
15J0461-02	SB01_18-20	10/12/15
15J0461-03	SB05_0-2	10/12/15
15J0461-04	SB05_21-23	10/12/15
15J0461-05	SB09_0-2	10/12/15
15J0461-06	SB09_17-19	10/12/15
15J0461-07	SB08_0-2	10/12/15
15J0461-08	SB08_16-18	10/12/15
15J0461-09	SB04_0-2	10/12/15
15J0461-10	SB04_16-18	10/12/15
BJ50572-DUP1	Duplicate	10/12/15

Batch ID: BJ50575 **Preparation Method:** Analysis Preparation **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/12/15
15J0461-02	SB01_18-20	10/12/15
15J0461-03	SB05_0-2	10/12/15
15J0461-04	SB05_21-23	10/12/15
15J0461-05	SB09_0-2	10/12/15
15J0461-06	SB09_17-19	10/12/15
15J0461-07	SB08_0-2	10/12/15
15J0461-08	SB08_16-18	10/12/15
15J0461-09	SB04_0-2	10/12/15
15J0461-10	SB04_16-18	10/12/15
BJ50575-DUP1	Duplicate	10/12/15

Batch ID: BJ50607 **Preparation Method:** Analysis Preparation Soil **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/13/15
15J0461-02	SB01_18-20	10/13/15
15J0461-03	SB05_0-2	10/13/15
15J0461-04	SB05_21-23	10/13/15
15J0461-05	SB09_0-2	10/13/15
15J0461-06	SB09_17-19	10/13/15
15J0461-07	SB08_0-2	10/13/15
15J0461-08	SB08_16-18	10/13/15
15J0461-09	SB04_0-2	10/13/15
BJ50607-BLK1	Blank	10/13/15
BJ50607-SRM1	Reference	10/13/15

Batch ID: BJ50619 **Preparation Method:** % Solids Prep **Prepared By:** CLS



YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/13/15
15J0461-02	SB01_18-20	10/13/15
15J0461-03	SB05_0-2	10/13/15
15J0461-04	SB05_21-23	10/13/15
15J0461-05	SB09_0-2	10/13/15
15J0461-06	SB09_17-19	10/13/15
15J0461-07	SB08_0-2	10/13/15
15J0461-08	SB08_16-18	10/13/15
15J0461-09	SB04_0-2	10/13/15
15J0461-10	SB04_16-18	10/13/15
BJ50619-DUP1	Duplicate	10/13/15

Batch ID: BJ50631 **Preparation Method:** EPA 3050B **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/13/15
15J0461-02	SB01_18-20	10/13/15
15J0461-03	SB05_0-2	10/13/15
15J0461-04	SB05_21-23	10/13/15
15J0461-05	SB09_0-2	10/13/15
15J0461-06	SB09_17-19	10/13/15
15J0461-07	SB08_0-2	10/13/15
15J0461-08	SB08_16-18	10/13/15
15J0461-09	SB04_0-2	10/13/15
15J0461-10	SB04_16-18	10/13/15
BJ50631-BLK1	Blank	10/13/15
BJ50631-SRM1	Reference	10/13/15

Batch ID: BJ50648 **Preparation Method:** Analysis Preparation **Prepared By:** CLS

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/14/15
BJ50648-BLK1	Blank	10/14/15
BJ50648-BS1	LCS	10/14/15
BJ50648-DUP1	Duplicate	10/14/15
BJ50648-MS1	Matrix Spike	10/14/15

Batch ID: BJ50653 **Preparation Method:** Analysis Preparation **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/12/15
BJ50653-DUP1	Duplicate	10/12/15

Batch ID: BJ50654 **Preparation Method:** Analysis Preparation **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/12/15
BJ50654-DUP1	Duplicate	10/12/15



Batch ID: BJ50658

Preparation Method: EPA 3535A

Prepared By: TFD

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/14/15
BJ50658-BLK1	Blank	10/14/15
BJ50658-BS1	LCS	10/14/15
BJ50658-BSD1	LCS Dup	10/14/15

Batch ID: BJ50672

Preparation Method: Analysis Preparation

Prepared By: AD

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/14/15
BJ50672-BLK1	Blank	10/14/15
BJ50672-BS1	LCS	10/14/15

Batch ID: BJ50676

Preparation Method: EPA SW846-3060

Prepared By: SC

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/14/15
15J0461-02	SB01_18-20	10/14/15
15J0461-03	SB05_0-2	10/14/15
15J0461-04	SB05_21-23	10/14/15
15J0461-05	SB09_0-2	10/14/15
15J0461-06	SB09_17-19	10/14/15
15J0461-07	SB08_0-2	10/14/15
15J0461-08	SB08_16-18	10/14/15
15J0461-09	SB04_0-2	10/14/15
BJ50676-BLK1	Blank	10/14/15
BJ50676-SRM1	Reference	10/14/15

Batch ID: BJ50702

Preparation Method: EPA 3550C

Prepared By: GRL

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/14/15
15J0461-01	SB01_0-2	10/14/15
15J0461-02	SB01_18-20	10/14/15
15J0461-02	SB01_18-20	10/14/15
15J0461-03	SB05_0-2	10/14/15
15J0461-03	SB05_0-2	10/14/15
15J0461-04	SB05_21-23	10/14/15
15J0461-04	SB05_21-23	10/14/15
15J0461-05	SB09_0-2	10/14/15
15J0461-05	SB09_0-2	10/14/15
15J0461-06	SB09_17-19	10/14/15
15J0461-06	SB09_17-19	10/14/15
15J0461-07	SB08_0-2	10/14/15
15J0461-07	SB08_0-2	10/14/15
15J0461-08	SB08_16-18	10/14/15



15J0461-08	SB08_16-18	10/14/15
15J0461-09	SB04_0-2	10/14/15
15J0461-09	SB04_0-2	10/14/15
15J0461-10	SB04_16-18	10/14/15
15J0461-10	SB04_16-18	10/14/15
BJ50702-BLK1	Blank	10/14/15
BJ50702-BLK1	Blank	10/14/15
BJ50702-BS1	LCS	10/14/15
BJ50702-BS2	LCS	10/14/15
BJ50702-BSD1	LCS Dup	10/14/15
BJ50702-BSD2	LCS Dup	10/14/15
BJ50702-MS1	Matrix Spike	10/14/15
BJ50702-MS2	Matrix Spike	10/14/15

Batch ID: BJ50729 **Preparation Method:** EPA 3550B/8151A **Prepared By:** TFD

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/15/15
15J0461-02	SB01_18-20	10/15/15
15J0461-03	SB05_0-2	10/15/15
15J0461-04	SB05_21-23	10/15/15
15J0461-05	SB09_0-2	10/15/15
15J0461-06	SB09_17-19	10/15/15
15J0461-07	SB08_0-2	10/15/15
15J0461-08	SB08_16-18	10/15/15
15J0461-09	SB04_0-2	10/15/15
15J0461-10	SB04_16-18	10/15/15
BJ50729-BLK1	Blank	10/15/15
BJ50729-BS1	LCS	10/15/15
BJ50729-BSD1	LCS Dup	10/15/15

Batch ID: BJ50732 **Preparation Method:** EPA SW846-3060 **Prepared By:** SC

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-10	SB04_16-18	10/15/15
BJ50732-BLK1	Blank	10/15/15
BJ50732-DUP1	Duplicate	10/15/15
BJ50732-MS1	Matrix Spike	10/15/15
BJ50732-SRM1	Reference	10/15/15

Batch ID: BJ50742 **Preparation Method:** EPA 7473 soil **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/15/15
15J0461-02	SB01_18-20	10/15/15
15J0461-03	SB05_0-2	10/15/15
15J0461-04	SB05_21-23	10/15/15
15J0461-05	SB09_0-2	10/15/15
BJ50742-BLK1	Blank	10/15/15
BJ50742-SRM1	Reference	10/15/15



Batch ID: BJ50743

Preparation Method: EPA 7473 soil

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-06	SB09_17-19	10/15/15
15J0461-07	SB08_0-2	10/15/15
15J0461-08	SB08_16-18	10/15/15
15J0461-09	SB04_0-2	10/15/15
15J0461-10	SB04_16-18	10/15/15
BJ50743-BLK1	Blank	10/15/15
BJ50743-DUP1	Duplicate	10/15/15
BJ50743-MS1	Matrix Spike	10/15/15
BJ50743-SRM1	Reference	10/15/15

Batch ID: BJ50744

Preparation Method: Analysis Preparation Soil

Prepared By: AD

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-10	SB04_16-18	10/15/15
BJ50744-BLK1	Blank	10/15/15
BJ50744-DUP1	Duplicate	10/15/15
BJ50744-MS1	Matrix Spike	10/15/15
BJ50744-SRM1	Reference	10/15/15

Batch ID: BJ50747

Preparation Method: EPA 3546 SVOA

Prepared By: TB

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/15/15
15J0461-02	SB01_18-20	10/15/15
15J0461-03	SB05_0-2	10/15/15
15J0461-04	SB05_21-23	10/15/15
15J0461-05	SB09_0-2	10/15/15
15J0461-06	SB09_17-19	10/15/15
15J0461-07	SB08_0-2	10/15/15
15J0461-08	SB08_16-18	10/15/15
15J0461-09	SB04_0-2	10/15/15
15J0461-10	SB04_16-18	10/15/15
BJ50747-BLK1	Blank	10/15/15
BJ50747-BS1	LCS	10/15/15
BJ50747-BSD1	LCS Dup	10/15/15

Batch ID: BJ50824

Preparation Method: EPA SW846-3510C Low Level

Prepared By: KAT

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/16/15
15J0461-12	SOFB01_101215	10/16/15
BJ50824-BLK1	Blank	10/16/15
BJ50824-BLK1	Blank	10/16/15
BJ50824-BS1	LCS	10/16/15
BJ50824-BS2	LCS	10/16/15



BJ50824-BSD1 LCS Dup 10/16/15
BJ50824-BSD2 LCS Dup 10/16/15

Batch ID: BJ50827 **Preparation Method:** EPA 3510C **Prepared By:** KAT

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/16/15
BJ50827-BLK1	Blank	10/16/15
BJ50827-BS1	LCS	10/16/15
BJ50827-BS2	LCS	10/16/15
BJ50827-BSD1	LCS Dup	10/16/15

Batch ID: BJ50839 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-11	SOTB_101215	10/16/15
15J0461-12	SOFB01_101215	10/16/15
BJ50839-BLK1	Blank	10/16/15
BJ50839-BS1	LCS	10/16/15
BJ50839-BSD1	LCS Dup	10/16/15

Batch ID: BJ50895 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-07	SB08_0-2	10/17/15
15J0461-08	SB08_16-18	10/17/15
15J0461-09	SB04_0-2	10/17/15
15J0461-10	SB04_16-18	10/17/15
BJ50895-BLK1	Blank	10/17/15
BJ50895-BS1	LCS	10/17/15
BJ50895-BSD1	LCS Dup	10/17/15

Batch ID: BJ50904 **Preparation Method:** EPA 3015A **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/19/15
BJ50904-BLK1	Blank	10/19/15
BJ50904-SRM1	Reference	10/19/15

Batch ID: BJ50916 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-02	SB01_18-20	10/19/15
BJ50916-BLK1	Blank	10/19/15
BJ50916-BS1	LCS	10/19/15
BJ50916-BSD1	LCS Dup	10/19/15



Batch ID: BJ50917

Preparation Method: EPA 5035A

Prepared By: BGS

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/19/15
15J0461-03	SB05_0-2	10/19/15
15J0461-04	SB05_21-23	10/19/15
15J0461-05	SB09_0-2	10/19/15
15J0461-06	SB09_17-19	10/19/15
BJ50917-BLK1	Blank	10/19/15
BJ50917-BS1	LCS	10/19/15
BJ50917-BSD1	LCS Dup	10/19/15

Batch ID: BJ50932

Preparation Method: EPA SW846-7470

Prepared By: AA

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/19/15
BJ50932-BLK1	Blank	10/19/15
BJ50932-BS1	LCS	10/19/15

Batch ID: BJ50949

Preparation Method: Analysis Preparation

Prepared By: PAM

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-01	SB01_0-2	10/19/15
15J0461-02	SB01_18-20	10/19/15
15J0461-03	SB05_0-2	10/19/15
15J0461-04	SB05_21-23	10/19/15
15J0461-05	SB09_0-2	10/19/15
15J0461-06	SB09_17-19	10/19/15
15J0461-07	SB08_0-2	10/19/15
15J0461-08	SB08_16-18	10/19/15
15J0461-09	SB04_0-2	10/19/15
15J0461-10	SB04_16-18	10/19/15

Batch ID: BJ51004

Preparation Method: Analysis Preparation

Prepared By: PAM

YORK Sample ID	Client Sample ID	Preparation Date
15J0461-12	SOFB01_101215	10/19/15



Volatile Organic Compounds by GC/MS - 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 BJ50839 - EPA 5030B

Blank (BJ50839-BLK1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	73	80	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								



Volatile Organic Compounds by GC/MS - 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 BJ50839 - EPA 5030B

Blank (BJ50839-BLK1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	2.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<hr/>											
Surrogate: 1,2-Dichloroethane-d4	10.7		"	10.0		107	69-130				
Surrogate: Toluene-d8	9.94		"	10.0		99.4	81-117				
Surrogate: p-Bromofluorobenzene	10.0		"	10.0		100	79-122				

LCS (BJ50839-BS1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		109	82-126				
1,1,1-Trichloroethane	11		"	10.0		112	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		109	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		106	54-165				
1,1,2-Trichloroethane	11		"	10.0		108	82-123				
1,1-Dichloroethane	11		"	10.0		113	82-129				
1,1-Dichloroethylene	11		"	10.0		113	68-138				
1,2,3-Trichlorobenzene	10		"	10.0		104	76-136				
1,2,3-Trichloropropane	11		"	10.0		109	77-128				
1,2,4-Trichlorobenzene	10		"	10.0		101	76-137				
1,2,4-Trimethylbenzene	11		"	10.0		108	82-132				
1,2-Dibromo-3-chloropropane	11		"	10.0		110	45-147				
1,2-Dibromoethane	11		"	10.0		105	83-124				
1,2-Dichlorobenzene	10		"	10.0		104	79-123				
1,2-Dichloroethane	11		"	10.0		114	73-132				
1,2-Dichloropropane	11		"	10.0		107	78-126				
1,3,5-Trimethylbenzene	11		"	10.0		108	80-131				
1,3-Dichlorobenzene	10		"	10.0		104	86-122				
1,4-Dichlorobenzene	10		"	10.0		103	85-124				
1,4-Dioxane	580		"	200		290	10-349				
2-Butanone	8.8		"	10.0		88.1	49-152				
2-Hexanone	11		"	10.0		110	51-146				
4-Methyl-2-pentanone	6.1		"	10.0		60.8	57-145				
Acetone	12		"	10.0		122	14-150				
Acrolein	8.8		"	10.0		87.8	10-153				
Acrylonitrile	9.9		"	10.0		98.6	51-150				
Benzene	11		"	10.0		106	85-126				
Bromochloromethane	11		"	10.0		106	77-128				
Bromodichloromethane	11		"	10.0		107	79-128				
Bromoform	11		"	10.0		107	78-133				
Bromomethane	12		"	10.0		117	43-168				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	
		Limit								Units	Level

Batch BJ50839 - EPA 5030B

LCS (BJ50839-BS1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

Carbon disulfide	11		ug/L	10.0		112	68-146				
Carbon tetrachloride	11		"	10.0		114	77-141				
Chlorobenzene	11		"	10.0		106	88-120				
Chloroethane	11		"	10.0		110	65-136				
Chloroform	11		"	10.0		111	82-128				
Chloromethane	11		"	10.0		110	43-155				
cis-1,2-Dichloroethylene	10		"	10.0		104	83-129				
cis-1,3-Dichloropropylene	9.0		"	10.0		90.2	80-131				
Cyclohexane	11		"	10.0		105	63-149				
Dibromochloromethane	11		"	10.0		110	80-130				
Dibromomethane	11		"	10.0		110	72-134				
Dichlorodifluoromethane	15		"	10.0		147	44-144	High Bias			
Ethyl Benzene	11		"	10.0		108	80-131				
Hexachlorobutadiene	10		"	10.0		100	67-146				
Isopropylbenzene	11		"	10.0		109	76-140				
Methyl acetate	8.2		"	10.0		82.4	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		111	76-135				
Methylcyclohexane	10		"	10.0		100	72-143				
Methylene chloride	10		"	10.0		103	55-137				
n-Butylbenzene	11		"	10.0		105	79-132				
n-Propylbenzene	11		"	10.0		110	78-133				
o-Xylene	11		"	10.0		108	78-130				
p- & m- Xylenes	23		"	20.0		113	77-133				
p-Isopropyltoluene	11		"	10.0		107	81-136				
sec-Butylbenzene	11		"	10.0		107	79-137				
Styrene	12		"	10.0		120	67-132				
tert-Butyl alcohol (TBA)	11		"	10.0		114	25-162				
tert-Butylbenzene	11		"	10.0		107	77-138				
Tetrachloroethylene	10		"	10.0		104	82-131				
Toluene	10		"	10.0		103	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		112	80-132				
trans-1,3-Dichloropropylene	8.6		"	10.0		86.0	78-131				
Trichloroethylene	10		"	10.0		105	82-128				
Trichlorofluoromethane	11		"	10.0		108	67-139				
Vinyl Chloride	12		"	10.0		122	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.0</i>		<i>"</i>	<i>10.0</i>		<i>110</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.94</i>		<i>"</i>	<i>10.0</i>		<i>99.4</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BJ50839 - EPA 5030B

LCS Dup (BJ50839-BSD1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		107	82-126			2.41	30
1,1,1-Trichloroethane	11		"	10.0		107	78-136			4.02	30
1,1,2,2-Tetrachloroethane	11		"	10.0		107	76-129			1.76	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		101	54-165			4.25	30
1,1,2-Trichloroethane	10		"	10.0		105	82-123			3.38	30
1,1-Dichloroethane	11		"	10.0		109	82-129			3.42	30
1,1-Dichloroethylene	11		"	10.0		109	68-138			3.61	30
1,2,3-Trichlorobenzene	10		"	10.0		104	76-136			0.480	30
1,2,3-Trichloropropane	11		"	10.0		109	77-128			0.276	30
1,2,4-Trichlorobenzene	10		"	10.0		101	76-137			0.396	30
1,2,4-Trimethylbenzene	11		"	10.0		106	82-132			1.12	30
1,2-Dibromo-3-chloropropane	11		"	10.0		110	45-147			0.272	30
1,2-Dibromoethane	10		"	10.0		104	83-124			1.63	30
1,2-Dichlorobenzene	10		"	10.0		103	79-123			0.867	30
1,2-Dichloroethane	11		"	10.0		110	73-132			3.48	30
1,2-Dichloropropane	11		"	10.0		105	78-126			1.98	30
1,3,5-Trimethylbenzene	11		"	10.0		107	80-131			0.743	30
1,3-Dichlorobenzene	10		"	10.0		104	86-122			0.481	30
1,4-Dichlorobenzene	10		"	10.0		101	85-124			1.77	30
1,4-Dioxane	580		"	200		288	10-349			0.636	30
2-Butanone	10		"	10.0		104	49-152			16.6	30
2-Hexanone	11		"	10.0		107	51-146			2.67	30
4-Methyl-2-pentanone	5.8		"	10.0		57.8	57-145			5.06	30
Acetone	11		"	10.0		112	14-150			8.31	30
Acrolein	8.7		"	10.0		86.8	10-153			1.15	30
Acrylonitrile	10		"	10.0		104	51-150			5.14	30
Benzene	10		"	10.0		101	85-126			4.36	30
Bromochloromethane	10		"	10.0		103	77-128			2.58	30
Bromodichloromethane	10		"	10.0		105	79-128			2.17	30
Bromoform	11		"	10.0		107	78-133			0.0935	30
Bromomethane	11		"	10.0		112	43-168			4.10	30
Carbon disulfide	11		"	10.0		107	68-146			4.30	30
Carbon tetrachloride	11		"	10.0		110	77-141			2.68	30
Chlorobenzene	11		"	10.0		105	88-120			0.944	30
Chloroethane	11		"	10.0		107	65-136			3.41	30
Chloroform	11		"	10.0		107	82-128			3.49	30
Chloromethane	10		"	10.0		104	43-155			5.33	30
cis-1,2-Dichloroethylene	10		"	10.0		99.7	83-129			4.32	30
cis-1,3-Dichloropropylene	8.7		"	10.0		86.6	80-131			4.07	30
Cyclohexane	10		"	10.0		102	63-149			3.49	30
Dibromochloromethane	11		"	10.0		108	80-130			1.66	30
Dibromomethane	11		"	10.0		108	72-134			1.19	30
Dichlorodifluoromethane	14		"	10.0		141	44-144			4.51	30
Ethyl Benzene	10		"	10.0		104	80-131			3.58	30
Hexachlorobutadiene	10		"	10.0		100	67-146			0.499	30
Isopropylbenzene	11		"	10.0		107	76-140			1.76	30
Methyl acetate	8.2		"	10.0		81.5	51-139			1.10	30
Methyl tert-butyl ether (MTBE)	11		"	10.0		106	76-135			4.23	30
Methylcyclohexane	9.7		"	10.0		96.7	72-143			3.75	30
Methylene chloride	9.9		"	10.0		98.7	55-137			4.17	30
n-Butylbenzene	10		"	10.0		103	79-132			2.11	30



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

Batch BJ50839 - EPA 5030B

LCS Dup (BJ50839-BSD1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

n-Propylbenzene	11		ug/L	10.0		108	78-133			1.84	30
o-Xylene	10		"	10.0		105	78-130			2.63	30
p- & m- Xylenes	22		"	20.0		109	77-133			3.48	30
p-Isopropyltoluene	11		"	10.0		108	81-136			0.279	30
sec-Butylbenzene	11		"	10.0		106	79-137			0.562	30
Styrene	12		"	10.0		117	67-132			2.29	30
tert-Butyl alcohol (TBA)	10		"	10.0		104	25-162			9.16	30
tert-Butylbenzene	11		"	10.0		107	77-138			0.561	30
Tetrachloroethylene	10		"	10.0		101	82-131			2.64	30
Toluene	10		"	10.0		100	80-127			2.56	30
trans-1,2-Dichloroethylene	11		"	10.0		106	80-132			5.22	30
trans-1,3-Dichloropropylene	8.5		"	10.0		85.4	78-131			0.700	30
Trichloroethylene	10		"	10.0		101	82-128			3.78	30
Trichlorofluoromethane	10		"	10.0		103	67-139			4.74	30
Vinyl Chloride	12		"	10.0		118	58-145			3.75	30
Surrogate: 1,2-Dichloroethane-d4	10.5		"	10.0		105	69-130				
Surrogate: Toluene-d8	9.90		"	10.0		99.0	81-117				
Surrogate: p-Bromofluorobenzene	10.2		"	10.0		102	79-122				

Batch BJ50895 - EPA 5035A

Blank (BJ50895-BLK1)

Prepared & Analyzed: 10/17/2015

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
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	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Limits	Flag	RPD	Limit	Flag
		Limit		Level	Result	%REC			RPD		

Batch BJ50895 - EPA 5035A

Blank (BJ50895-BLK1)

Prepared & Analyzed: 10/17/2015

Bromomethane	ND	5.0	ug/kg wet								
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	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.8		ug/L	50.0		102	77-125				
<i>Surrogate: Toluene-d8</i>	56.7		"	50.0		113	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	49.2		"	50.0		98.3	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD	
		Limit	Units							Limit	Flag

Batch BJ50895 - EPA 5035A

LCS (BJ50895-BS1)

Prepared & Analyzed: 10/17/2015

1,1,1,2-Tetrachloroethane	51		ug/L	50.0		103	75-129				
1,1,1-Trichloroethane	42		"	50.0		83.3	71-137				
1,1,2,2-Tetrachloroethane	57		"	50.0		115	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	39		"	50.0		78.3	58-146				
1,1,2-Trichloroethane	53		"	50.0		107	83-123				
1,1-Dichloroethane	43		"	50.0		85.1	75-130				
1,1-Dichloroethylene	39		"	50.0		78.1	64-137				
1,2,3-Trichlorobenzene	61		"	50.0		122	81-140				
1,2,3-Trichloropropane	57		"	50.0		115	81-126				
1,2,4-Trichlorobenzene	60		"	50.0		120	80-141				
1,2,4-Trimethylbenzene	58		"	50.0		117	84-125				
1,2-Dibromo-3-chloropropane	58		"	50.0		117	74-142				
1,2-Dibromoethane	54		"	50.0		108	86-123				
1,2-Dichlorobenzene	59		"	50.0		117	85-122				
1,2-Dichloroethane	42		"	50.0		84.5	71-133				
1,2-Dichloropropane	52		"	50.0		104	81-122				
1,3,5-Trimethylbenzene	57		"	50.0		114	82-126				
1,3-Dichlorobenzene	59		"	50.0		117	84-124				
1,4-Dichlorobenzene	58		"	50.0		116	84-124				
1,4-Dioxane	1100		"	1000		109	10-228				
2-Butanone	38		"	50.0		75.5	58-147				
2-Hexanone	48		"	50.0		95.7	70-139				
4-Methyl-2-pentanone	53		"	50.0		106	72-132				
Acetone	27		"	50.0		54.7	36-155				
Acrolein	67		"	50.0		134	10-238				
Acrylonitrile	45		"	50.0		89.4	66-141				
Benzene	43		"	50.0		86.8	77-127				
Bromochloromethane	43		"	50.0		86.5	74-129				
Bromodichloromethane	52		"	50.0		104	81-124				
Bromoform	57		"	50.0		115	80-136				
Bromomethane	41		"	50.0		82.3	32-177				
Carbon disulfide	41		"	50.0		82.5	10-136				
Carbon tetrachloride	42		"	50.0		84.6	66-143				
Chlorobenzene	53		"	50.0		107	86-120				
Chloroethane	42		"	50.0		83.1	51-142				
Chloroform	42		"	50.0		84.8	76-131				
Chloromethane	42		"	50.0		84.3	49-132				
cis-1,2-Dichloroethylene	40		"	50.0		80.8	74-132				
cis-1,3-Dichloropropylene	52		"	50.0		104	81-129				
Cyclohexane	41		"	50.0		81.3	70-130				
Dibromochloromethane	53		"	50.0		107	10-200				
Dibromomethane	52		"	50.0		104	83-124				
Dichlorodifluoromethane	43		"	50.0		86.7	28-158				
Ethyl Benzene	50		"	50.0		101	84-125				
Hexachlorobutadiene	58		"	50.0		115	83-133				
Isopropylbenzene	58		"	50.0		115	81-127				
Methyl acetate	41		"	50.0		82.4	41-143				
Methyl tert-butyl ether (MTBE)	44		"	50.0		87.8	74-131				
Methylcyclohexane	48		"	50.0		95.3	70-130				
Methylene chloride	42		"	50.0		83.8	57-141				
n-Butylbenzene	56		"	50.0		113	80-130				



Volatile Organic Compounds by GC/MS - 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 BJ50895 - EPA 5035A

LCS (BJ50895-BS1)

Prepared & Analyzed: 10/17/2015

n-Propylbenzene	57		ug/L	50.0		113	74-136				
o-Xylene	51		"	50.0		102	83-123				
p- & m- Xylenes	100		"	100		102	82-128				
p-Isopropyltoluene	58		"	50.0		117	85-125				
sec-Butylbenzene	56		"	50.0		112	83-125				
Styrene	53		"	50.0		106	86-126				
tert-Butyl alcohol (TBA)	42		"	50.0		83.3	70-130				
tert-Butylbenzene	55		"	50.0		111	80-127				
Tetrachloroethylene	51		"	50.0		101	80-129				
Toluene	51		"	50.0		103	85-121				
trans-1,2-Dichloroethylene	42		"	50.0		83.0	72-132				
trans-1,3-Dichloropropylene	51		"	50.0		102	78-132				
Trichloroethylene	50		"	50.0		99.3	84-123				
Trichlorofluoromethane	39		"	50.0		77.8	62-140				
Vinyl Chloride	42		"	50.0		83.7	52-130				
Surrogate: 1,2-Dichloroethane-d4	46.8		"	50.0		93.6	77-125				
Surrogate: Toluene-d8	54.0		"	50.0		108	85-120				
Surrogate: p-Bromofluorobenzene	50.0		"	50.0		100	76-130				

LCS Dup (BJ50895-BSD1)

Prepared & Analyzed: 10/17/2015

1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129		1.60	30	
1,1,1-Trichloroethane	41		"	50.0		82.2	71-137		1.31	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		108	79-129		5.83	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	40		"	50.0		80.0	58-146		2.20	30	
1,1,2-Trichloroethane	50		"	50.0		101	83-123		5.44	30	
1,1-Dichloroethane	43		"	50.0		85.7	75-130		0.726	30	
1,1-Dichloroethylene	41		"	50.0		82.5	64-137		5.40	30	
1,2,3-Trichlorobenzene	59		"	50.0		119	81-140		2.91	30	
1,2,3-Trichloropropane	55		"	50.0		109	81-126		5.14	30	
1,2,4-Trichlorobenzene	58		"	50.0		117	80-141		3.31	30	
1,2,4-Trimethylbenzene	55		"	50.0		110	84-125		6.16	30	
1,2-Dibromo-3-chloropropane	52		"	50.0		105	74-142		10.6	30	
1,2-Dibromoethane	52		"	50.0		103	86-123		4.68	30	
1,2-Dichlorobenzene	57		"	50.0		114	85-122		2.54	30	
1,2-Dichloroethane	42		"	50.0		84.3	71-133		0.284	30	
1,2-Dichloropropane	51		"	50.0		101	81-122		3.07	30	
1,3,5-Trimethylbenzene	57		"	50.0		113	82-126		0.458	30	
1,3-Dichlorobenzene	54		"	50.0		108	84-124		8.14	30	
1,4-Dichlorobenzene	56		"	50.0		112	84-124		3.74	30	
1,4-Dioxane	1100		"	1000		109	10-228		0.171	30	
2-Butanone	40		"	50.0		79.9	58-147		5.71	30	
2-Hexanone	45		"	50.0		90.1	70-139		6.05	30	
4-Methyl-2-pentanone	48		"	50.0		95.2	72-132		11.0	30	
Acetone	28		"	50.0		55.1	36-155		0.729	30	
Acrolein	61		"	50.0		121	10-238		9.73	30	
Acrylonitrile	41		"	50.0		82.8	66-141		7.69	30	
Benzene	44		"	50.0		87.5	77-127		0.826	30	
Bromochloromethane	41		"	50.0		82.3	74-129		4.95	30	
Bromodichloromethane	49		"	50.0		98.7	81-124		5.19	30	
Bromoform	55		"	50.0		111	80-136		3.55	30	
Bromomethane	44		"	50.0		87.3	32-177		5.87	30	
Carbon disulfide	41		"	50.0		81.3	10-136		1.44	30	



Volatile Organic Compounds by GC/MS - 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 BJ50895 - EPA 5035A

LCS Dup (BJ50895-BSD1)

Prepared & Analyzed: 10/17/2015

Carbon tetrachloride	42		ug/L	50.0		84.0	66-143		0.759	30	
Chlorobenzene	52		"	50.0		104	86-120		2.18	30	
Chloroethane	40		"	50.0		80.3	51-142		3.45	30	
Chloroform	43		"	50.0		85.4	76-131		0.658	30	
Chloromethane	41		"	50.0		81.6	49-132		3.23	30	
cis-1,2-Dichloroethylene	39		"	50.0		79.0	74-132		2.30	30	
cis-1,3-Dichloropropylene	53		"	50.0		105	81-129		1.20	30	
Cyclohexane	38		"	50.0		76.4	70-130		6.19	30	
Dibromochloromethane	53		"	50.0		105	10-200		1.32	30	
Dibromomethane	51		"	50.0		102	83-124		1.86	30	
Dichlorodifluoromethane	42		"	50.0		83.4	28-158		3.95	30	
Ethyl Benzene	50		"	50.0		101	84-125		0.377	30	
Hexachlorobutadiene	56		"	50.0		111	83-133		3.87	30	
Isopropylbenzene	56		"	50.0		112	81-127		3.40	30	
Methyl acetate	46		"	50.0		91.5	41-143		10.4	30	
Methyl tert-butyl ether (MTBE)	43		"	50.0		85.1	74-131		3.10	30	
Methylcyclohexane	48		"	50.0		95.1	70-130		0.252	30	
Methylene chloride	42		"	50.0		83.1	57-141		0.791	30	
n-Butylbenzene	56		"	50.0		111	80-130		1.34	30	
n-Propylbenzene	55		"	50.0		110	74-136		3.03	30	
o-Xylene	51		"	50.0		102	83-123		0.412	30	
p- & m- Xylenes	100		"	100		101	82-128		1.33	30	
p-Isopropyltoluene	54		"	50.0		108	85-125		8.01	30	
sec-Butylbenzene	55		"	50.0		111	83-125		1.04	30	
Styrene	53		"	50.0		106	86-126		0.0753	30	
tert-Butyl alcohol (TBA)	38		"	50.0		76.1	70-130		9.01	30	
tert-Butylbenzene	53		"	50.0		107	80-127		3.49	30	
Tetrachloroethylene	50		"	50.0		100	80-129		0.993	30	
Toluene	51		"	50.0		102	85-121		0.566	30	
trans-1,2-Dichloroethylene	41		"	50.0		81.9	72-132		1.31	30	
trans-1,3-Dichloropropylene	51		"	50.0		102	78-132		0.117	30	
Trichloroethylene	51		"	50.0		103	84-123		3.43	30	
Trichlorofluoromethane	40		"	50.0		79.5	62-140		2.21	30	
Vinyl Chloride	42		"	50.0		84.7	52-130		1.24	30	
Surrogate: 1,2-Dichloroethane-d4	48.1		"	50.0		96.2	77-125				
Surrogate: Toluene-d8	53.0		"	50.0		106	85-120				
Surrogate: p-Bromofluorobenzene	49.5		"	50.0		99.0	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BJ50916 - EPA 5035A

Blank (BJ50916-BLK1)

Prepared & Analyzed: 10/19/2015

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
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	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	100	"
2-Butanone	ND	5.0	"
2-Hexanone	ND	5.0	"
4-Methyl-2-pentanone	ND	5.0	"
Acetone	ND	10	"
Acrolein	ND	10	"
Acrylonitrile	ND	5.0	"
Benzene	ND	5.0	"
Bromochloromethane	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	"
Cyclohexane	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl acetate	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylcyclohexane	ND	5.0	"
Methylene chloride	ND	10	"
n-Butylbenzene	ND	5.0	"



Volatile Organic Compounds by GC/MS - 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 BJ50916 - EPA 5035A

Blank (BJ50916-BLK1)

Prepared & Analyzed: 10/19/2015

n-Propylbenzene	ND	5.0	ug/kg wet								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	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	"								

LCS (BJ50916-BS1)

Prepared & Analyzed: 10/19/2015

1,1,1,2-Tetrachloroethane	56		ug/L	50.0		111	75-129				
1,1,1-Trichloroethane	63		"	50.0		126	71-137				
1,1,2,2-Tetrachloroethane	54		"	50.0		107	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	59		"	50.0		118	58-146				
1,1,2-Trichloroethane	55		"	50.0		110	83-123				
1,1-Dichloroethane	61		"	50.0		122	75-130				
1,1-Dichloroethylene	61		"	50.0		122	64-137				
1,2,3-Trichlorobenzene	56		"	50.0		112	81-140				
1,2,3-Trichloropropane	56		"	50.0		111	81-126				
1,2,4-Trichlorobenzene	56		"	50.0		112	80-141				
1,2,4-Trimethylbenzene	49		"	50.0		98.9	84-125				
1,2-Dibromo-3-chloropropane	60		"	50.0		120	74-142				
1,2-Dibromoethane	59		"	50.0		117	86-123				
1,2-Dichlorobenzene	52		"	50.0		104	85-122				
1,2-Dichloroethane	65		"	50.0		131	71-133				
1,2-Dichloropropane	51		"	50.0		101	81-122				
1,3,5-Trimethylbenzene	49		"	50.0		98.9	82-126				
1,3-Dichlorobenzene	51		"	50.0		103	84-124				
1,4-Dichlorobenzene	52		"	50.0		104	84-124				
1,4-Dioxane	1400		"	1000		140	10-228				
2-Butanone	71		"	50.0		143	58-147				
2-Hexanone	61		"	50.0		123	70-139				
4-Methyl-2-pentanone	58		"	50.0		116	72-132				
Acetone	71		"	50.0		142	36-155				
Acrolein	32		"	50.0		64.4	10-238				
Acrylonitrile	75		"	50.0		150	66-141	High Bias			
Benzene	61		"	50.0		123	77-127				
Bromochloromethane	62		"	50.0		125	74-129				
Bromodichloromethane	54		"	50.0		108	81-124				
Bromoform	60		"	50.0		119	80-136				
Bromomethane	43		"	50.0		85.6	32-177				
Carbon disulfide	61		"	50.0		123	10-136				
Carbon tetrachloride	67		"	50.0		133	66-143				
Chlorobenzene	55		"	50.0		110	86-120				



Volatile Organic Compounds by GC/MS - 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 BJ50916 - EPA 5035A

LCS (BJ50916-BS1)

Prepared & Analyzed: 10/19/2015

Chloroethane	52		ug/L	50.0		104	51-142				
Chloroform	65		"	50.0		129	76-131				
Chloromethane	53		"	50.0		106	49-132				
cis-1,2-Dichloroethylene	65		"	50.0		129	74-132				
cis-1,3-Dichloropropylene	54		"	50.0		107	81-129				
Cyclohexane	56		"	50.0		112	70-130				
Dibromochloromethane	59		"	50.0		118	10-200				
Dibromomethane	56		"	50.0		111	83-124				
Dichlorodifluoromethane	65		"	50.0		131	28-158				
Ethyl Benzene	52		"	50.0		104	84-125				
Hexachlorobutadiene	54		"	50.0		108	83-133				
Isopropylbenzene	49		"	50.0		98.0	81-127				
Methyl acetate	64		"	50.0		128	41-143				
Methyl tert-butyl ether (MTBE)	67		"	50.0		134	74-131	High Bias			
Methylcyclohexane	50		"	50.0		100	70-130				
Methylene chloride	59		"	50.0		119	57-141				
n-Butylbenzene	48		"	50.0		97.0	80-130				
n-Propylbenzene	49		"	50.0		97.9	74-136				
o-Xylene	53		"	50.0		106	83-123				
p- & m- Xylenes	100		"	100		104	82-128				
p-Isopropyltoluene	50		"	50.0		100	85-125				
sec-Butylbenzene	49		"	50.0		98.6	83-125				
Styrene	54		"	50.0		107	86-126				
tert-Butyl alcohol (TBA)	77		"	50.0		155	70-130	High Bias			
tert-Butylbenzene	50		"	50.0		99.9	80-127				
Tetrachloroethylene	58		"	50.0		115	80-129				
Toluene	52		"	50.0		104	85-121				
trans-1,2-Dichloroethylene	61		"	50.0		122	72-132				
trans-1,3-Dichloropropylene	55		"	50.0		111	78-132				
Trichloroethylene	53		"	50.0		107	84-123				
Trichlorofluoromethane	56		"	50.0		112	62-140				
Vinyl Chloride	53		"	50.0		105	52-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
Batch BJ50916 - EPA 5035A										
LCS Dup (BJ50916-BSD1)										
Prepared & Analyzed: 10/19/2015										
1,1,1,2-Tetrachloroethane	57		ug/L	50.0		114	75-129		2.63	30
1,1,1-Trichloroethane	65		"	50.0		131	71-137		3.35	30
1,1,2,2-Tetrachloroethane	52		"	50.0		104	79-129		2.88	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	60		"	50.0		120	58-146		1.11	30
1,1,2-Trichloroethane	55		"	50.0		109	83-123		0.603	30
1,1-Dichloroethane	61		"	50.0		122	75-130		0.394	30
1,1-Dichloroethylene	61		"	50.0		121	64-137		0.132	30
1,2,3-Trichlorobenzene	56		"	50.0		112	81-140		0.392	30
1,2,3-Trichloropropane	53		"	50.0		106	81-126		5.12	30
1,2,4-Trichlorobenzene	56		"	50.0		113	80-141		0.570	30
1,2,4-Trimethylbenzene	51		"	50.0		103	84-125		3.97	30
1,2-Dibromo-3-chloropropane	55		"	50.0		109	74-142		9.66	30
1,2-Dibromoethane	57		"	50.0		114	86-123		2.67	30
1,2-Dichlorobenzene	53		"	50.0		106	85-122		2.19	30
1,2-Dichloroethane	63		"	50.0		127	71-133		3.40	30
1,2-Dichloropropane	51		"	50.0		103	81-122		1.12	30
1,3,5-Trimethylbenzene	52		"	50.0		103	82-126		4.35	30
1,3-Dichlorobenzene	54		"	50.0		108	84-124		4.61	30
1,4-Dichlorobenzene	53		"	50.0		107	84-124		2.72	30
1,4-Dioxane	1100		"	1000		113	10-228		21.7	30
2-Butanone	62		"	50.0		124	58-147		13.6	30
2-Hexanone	53		"	50.0		106	70-139		14.8	30
4-Methyl-2-pentanone	52		"	50.0		104	72-132		10.8	30
Acetone	66		"	50.0		131	36-155		7.68	30
Acrolein	35		"	50.0		69.2	10-238		7.19	30
Acrylonitrile	63		"	50.0		126	66-141		17.6	30
Benzene	62		"	50.0		124	77-127		0.649	30
Bromochloromethane	63		"	50.0		125	74-129		0.288	30
Bromodichloromethane	55		"	50.0		111	81-124		2.56	30
Bromoform	57		"	50.0		113	80-136		5.02	30
Bromomethane	49		"	50.0		97.1	32-177		12.6	30
Carbon disulfide	63		"	50.0		125	10-136		1.87	30
Carbon tetrachloride	66		"	50.0		132	66-143		0.858	30
Chlorobenzene	55		"	50.0		111	86-120		0.761	30
Chloroethane	53		"	50.0		107	51-142		2.76	30
Chloroform	65		"	50.0		130	76-131		0.509	30
Chloromethane	56		"	50.0		111	49-132		5.23	30
cis-1,2-Dichloroethylene	64		"	50.0		127	74-132		1.53	30
cis-1,3-Dichloropropylene	55		"	50.0		109	81-129		1.85	30
Cyclohexane	57		"	50.0		114	70-130		1.73	30
Dibromochloromethane	59		"	50.0		118	10-200		0.492	30
Dibromomethane	55		"	50.0		110	83-124		0.920	30
Dichlorodifluoromethane	65		"	50.0		131	28-158		0.122	30
Ethyl Benzene	54		"	50.0		109	84-125		4.32	30
Hexachlorobutadiene	56		"	50.0		111	83-133		2.50	30
Isopropylbenzene	52		"	50.0		104	81-127		5.92	30
Methyl acetate	57		"	50.0		114	41-143		11.5	30
Methyl tert-butyl ether (MTBE)	63		"	50.0		127	74-131		5.27	30
Methylcyclohexane	51		"	50.0		102	70-130		1.57	30
Methylene chloride	60		"	50.0		119	57-141		0.521	30
n-Butylbenzene	50		"	50.0		101	80-130		3.70	30



Volatile Organic Compounds by GC/MS - 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 BJ50916 - EPA 5035A

LCS Dup (BJ50916-BSD1)

Prepared & Analyzed: 10/19/2015

n-Propylbenzene	51		ug/L	50.0		101	74-136		3.51	30	
o-Xylene	55		"	50.0		109	83-123		2.93	30	
p- & m- Xylenes	110		"	100		108	82-128		3.54	30	
p-Isopropyltoluene	52		"	50.0		104	85-125		3.57	30	
sec-Butylbenzene	51		"	50.0		103	83-125		4.19	30	
Styrene	55		"	50.0		110	86-126		2.49	30	
tert-Butyl alcohol (TBA)	58		"	50.0		117	70-130		27.7	30	
tert-Butylbenzene	52		"	50.0		104	80-127		4.48	30	
Tetrachloroethylene	59		"	50.0		118	80-129		2.61	30	
Toluene	54		"	50.0		107	85-121		3.31	30	
trans-1,2-Dichloroethylene	62		"	50.0		124	72-132		1.43	30	
trans-1,3-Dichloropropylene	55		"	50.0		110	78-132		0.362	30	
Trichloroethylene	54		"	50.0		108	84-123		1.45	30	
Trichlorofluoromethane	58		"	50.0		115	62-140		2.80	30	
Vinyl Chloride	56		"	50.0		111	52-130		5.59	30	

Batch BJ50917 - EPA 5035A

Blank (BJ50917-BLK1)

Prepared & Analyzed: 10/19/2015

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
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	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	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	"								



Volatile Organic Compounds by GC/MS - 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 BJ50917 - EPA 5035A

Blank (BJ50917-BLK1)

Prepared & Analyzed: 10/19/2015

Chlorobenzene	ND	5.0	ug/kg wet								
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	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	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	65.4		ug/L	50.0		131	77-125				
Surrogate: Toluene-d8	50.0		"	50.0		100	85-120				
Surrogate: p-Bromofluorobenzene	52.9		"	50.0		106	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source*		%REC Limits	Flag	RPD	
		Limit	Units		Result	%REC			RPD	Limit

Batch BJ50917 - EPA 5035A

LCS (BJ50917-BS1)

Prepared & Analyzed: 10/19/2015

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		106	75-129				
1,1,1-Trichloroethane	63		"	50.0		126	71-137				
1,1,2,2-Tetrachloroethane	55		"	50.0		109	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	37		"	50.0		73.3	58-146				
1,1,2-Trichloroethane	56		"	50.0		112	83-123				
1,1-Dichloroethane	55		"	50.0		109	75-130				
1,1-Dichloroethylene	35		"	50.0		70.9	64-137				
1,2,3-Trichlorobenzene	50		"	50.0		99.2	81-140				
1,2,3-Trichloropropane	55		"	50.0		111	81-126				
1,2,4-Trichlorobenzene	48		"	50.0		96.8	80-141				
1,2,4-Trimethylbenzene	54		"	50.0		109	84-125				
1,2-Dibromo-3-chloropropane	53		"	50.0		107	74-142				
1,2-Dibromoethane	53		"	50.0		106	86-123				
1,2-Dichlorobenzene	49		"	50.0		98.4	85-122				
1,2-Dichloroethane	64		"	50.0		128	71-133				
1,2-Dichloropropane	60		"	50.0		120	81-122				
1,3,5-Trimethylbenzene	57		"	50.0		114	82-126				
1,3-Dichlorobenzene	51		"	50.0		103	84-124				
1,4-Dichlorobenzene	51		"	50.0		102	84-124				
1,4-Dioxane	1100		"	1000		112	10-228				
2-Butanone	52		"	50.0		105	58-147				
2-Hexanone	53		"	50.0		107	70-139				
4-Methyl-2-pentanone	55		"	50.0		110	72-132				
Acetone	32		"	50.0		63.4	36-155				
Acrolein	40		"	50.0		80.1	10-238				
Acrylonitrile	48		"	50.0		95.6	66-141				
Benzene	47		"	50.0		93.2	77-127				
Bromochloromethane	49		"	50.0		97.5	74-129				
Bromodichloromethane	65		"	50.0		130	81-124	High Bias			
Bromoform	50		"	50.0		99.6	80-136				
Bromomethane	38		"	50.0		76.6	32-177				
Carbon disulfide	34		"	50.0		68.6	10-136				
Carbon tetrachloride	62		"	50.0		124	66-143				
Chlorobenzene	52		"	50.0		104	86-120				
Chloroethane	38		"	50.0		75.4	51-142				
Chloroform	57		"	50.0		114	76-131				
Chloromethane	40		"	50.0		81.0	49-132				
cis-1,2-Dichloroethylene	48		"	50.0		96.7	74-132				
cis-1,3-Dichloropropylene	54		"	50.0		108	81-129				
Cyclohexane	48		"	50.0		96.3	70-130				
Dibromochloromethane	52		"	50.0		105	10-200				
Dibromomethane	62		"	50.0		124	83-124				
Dichlorodifluoromethane	47		"	50.0		94.6	28-158				
Ethyl Benzene	56		"	50.0		113	84-125				
Hexachlorobutadiene	51		"	50.0		101	83-133				
Isopropylbenzene	57		"	50.0		114	81-127				
Methyl acetate	35		"	50.0		69.1	41-143				
Methyl tert-butyl ether (MTBE)	60		"	50.0		120	74-131				
Methylcyclohexane	58		"	50.0		116	70-130				
Methylene chloride	32		"	50.0		64.5	57-141				
n-Butylbenzene	57		"	50.0		114	80-130				



Volatile Organic Compounds by GC/MS - 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 BJ50917 - EPA 5035A

LCS (BJ50917-BS1)

Prepared & Analyzed: 10/19/2015

n-Propylbenzene	57		ug/L	50.0		113	74-136				
o-Xylene	56		"	50.0		112	83-123				
p- & m- Xylenes	110		"	100		113	82-128				
p-Isopropyltoluene	55		"	50.0		110	85-125				
sec-Butylbenzene	56		"	50.0		113	83-125				
Styrene	53		"	50.0		107	86-126				
tert-Butyl alcohol (TBA)	57		"	50.0		114	70-130				
tert-Butylbenzene	55		"	50.0		110	80-127				
Tetrachloroethylene	50		"	50.0		100	80-129				
Toluene	56		"	50.0		111	85-121				
trans-1,2-Dichloroethylene	57		"	50.0		114	72-132				
trans-1,3-Dichloropropylene	55		"	50.0		110	78-132				
Trichloroethylene	64		"	50.0		127	84-123	High Bias			
Trichlorofluoromethane	35		"	50.0		70.0	62-140				
Vinyl Chloride	39		"	50.0		78.8	52-130				
Surrogate: 1,2-Dichloroethane-d4	56.6		"	50.0		113	77-125				
Surrogate: Toluene-d8	50.4		"	50.0		101	85-120				
Surrogate: p-Bromofluorobenzene	51.1		"	50.0		102	76-130				

LCS Dup (BJ50917-BSD1)

Prepared & Analyzed: 10/19/2015

1,1,1,2-Tetrachloroethane	53		ug/L	50.0		107	75-129		1.26	30	
1,1,1-Trichloroethane	57		"	50.0		114	71-137		9.48	30	
1,1,2,2-Tetrachloroethane	57		"	50.0		114	79-129		4.37	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		98.5	58-146		29.4	30	
1,1,2-Trichloroethane	58		"	50.0		115	83-123		2.81	30	
1,1-Dichloroethane	58		"	50.0		117	75-130		6.91	30	
1,1-Dichloroethylene	50		"	50.0		99.3	64-137		33.4	30	Non-dir.
1,2,3-Trichlorobenzene	52		"	50.0		104	81-140		4.94	30	
1,2,3-Trichloropropane	58		"	50.0		116	81-126		4.15	30	
1,2,4-Trichlorobenzene	51		"	50.0		103	80-141		5.74	30	
1,2,4-Trimethylbenzene	59		"	50.0		118	84-125		8.11	30	
1,2-Dibromo-3-chloropropane	57		"	50.0		114	74-142		6.31	30	
1,2-Dibromoethane	55		"	50.0		110	86-123		3.42	30	
1,2-Dichlorobenzene	52		"	50.0		103	85-122		4.66	30	
1,2-Dichloroethane	58		"	50.0		115	71-133		10.0	30	
1,2-Dichloropropane	58		"	50.0		116	81-122		3.00	30	
1,3,5-Trimethylbenzene	59		"	50.0		119	82-126		3.72	30	
1,3-Dichlorobenzene	54		"	50.0		109	84-124		5.77	30	
1,4-Dichlorobenzene	53		"	50.0		107	84-124		4.19	30	
1,4-Dioxane	1100		"	1000		106	10-228		5.74	30	
2-Butanone	61		"	50.0		122	58-147		15.6	30	
2-Hexanone	57		"	50.0		115	70-139		7.32	30	
4-Methyl-2-pentanone	62		"	50.0		123	72-132		11.0	30	
Acetone	42		"	50.0		84.8	36-155		28.9	30	
Acrolein	39		"	50.0		77.8	10-238		2.91	30	
Acrylonitrile	55		"	50.0		109	66-141		13.3	30	
Benzene	59		"	50.0		117	77-127		22.8	30	
Bromochloromethane	55		"	50.0		110	74-129		12.2	30	
Bromodichloromethane	57		"	50.0		113	81-124		13.8	30	
Bromoform	51		"	50.0		103	80-136		3.14	30	
Bromomethane	52		"	50.0		103	32-177		29.8	30	
Carbon disulfide	50		"	50.0		99.1	10-136		36.3	30	Non-dir.



Volatile Organic Compounds by GC/MS - 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 BJ50917 - EPA 5035A

LCS Dup (BJ50917-BSD1)

Prepared & Analyzed: 10/19/2015

Carbon tetrachloride	57		ug/L	50.0		113	66-143		8.93	30	
Chlorobenzene	55		"	50.0		110	86-120		4.95	30	
Chloroethane	51		"	50.0		101	51-142		29.1	30	
Chloroform	58		"	50.0		117	76-131		2.59	30	
Chloromethane	53		"	50.0		106	49-132		27.1	30	
cis-1,2-Dichloroethylene	56		"	50.0		113	74-132		15.2	30	
cis-1,3-Dichloropropylene	57		"	50.0		114	81-129		5.79	30	
Cyclohexane	55		"	50.0		109	70-130		12.6	30	
Dibromochloromethane	54		"	50.0		108	10-200		2.84	30	
Dibromomethane	56		"	50.0		113	83-124		9.00	30	
Dichlorodifluoromethane	58		"	50.0		115	28-158		19.5	30	
Ethyl Benzene	58		"	50.0		117	84-125		3.80	30	
Hexachlorobutadiene	54		"	50.0		109	83-133		6.82	30	
Isopropylbenzene	59		"	50.0		118	81-127		3.45	30	
Methyl acetate	43		"	50.0		85.6	41-143		21.3	30	
Methyl tert-butyl ether (MTBE)	56		"	50.0		112	74-131		6.12	30	
Methylcyclohexane	55		"	50.0		109	70-130		6.29	30	
Methylene chloride	48		"	50.0		96.3	57-141		39.5	30	Non-dir.
n-Butylbenzene	58		"	50.0		116	80-130		1.11	30	
n-Propylbenzene	58		"	50.0		116	74-136		2.44	30	
o-Xylene	58		"	50.0		116	83-123		4.06	30	
p- & m- Xylenes	120		"	100		118	82-128		4.12	30	
p-Isopropyltoluene	59		"	50.0		118	85-125		6.97	30	
sec-Butylbenzene	57		"	50.0		114	83-125		1.27	30	
Styrene	58		"	50.0		116	86-126		8.62	30	
tert-Butyl alcohol (TBA)	50		"	50.0		101	70-130		12.8	30	
tert-Butylbenzene	57		"	50.0		113	80-127		2.95	30	
Tetrachloroethylene	54		"	50.0		109	80-129		7.93	30	
Toluene	58		"	50.0		116	85-121		3.88	30	
trans-1,2-Dichloroethylene	58		"	50.0		116	72-132		2.56	30	
trans-1,3-Dichloropropylene	57		"	50.0		114	78-132		3.38	30	
Trichloroethylene	57		"	50.0		114	84-123		11.0	30	
Trichlorofluoromethane	48		"	50.0		95.4	62-140		30.8	30	Non-dir.
Vinyl Chloride	50		"	50.0		99.2	52-130		23.0	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.2</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.2</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.5</i>		<i>"</i>	<i>50.0</i>		<i>99.1</i>	<i>76-130</i>				



Semivolatile Organic Compounds by GC/MS - 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 BJ50747 - EPA 3546 SVOA

Blank (BJ50747-BLK1)

Prepared: 10/15/2015 Analyzed: 10/16/2015

1,1'-Biphenyl	ND	62.6	ug/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	125	"								
1,2,4-Trichlorobenzene	ND	62.6	"								
1,2-Dichlorobenzene	ND	62.6	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	62.6	"								
1,3-Dichlorobenzene	ND	62.6	"								
1,4-Dichlorobenzene	ND	62.6	"								
2,3,4,6-Tetrachlorophenol	ND	125	"								
2,4,5-Trichlorophenol	ND	62.6	"								
2,4,6-Trichlorophenol	ND	62.6	"								
2,4-Dichlorophenol	ND	62.6	"								
2,4-Dimethylphenol	ND	62.6	"								
2,4-Dinitrophenol	ND	125	"								
2,4-Dinitrotoluene	ND	62.6	"								
2,6-Dinitrotoluene	ND	62.6	"								
2-Chloronaphthalene	ND	62.6	"								
2-Chlorophenol	ND	62.6	"								
2-Methylnaphthalene	ND	62.6	"								
2-Methylphenol	ND	62.6	"								
2-Nitroaniline	ND	125	"								
2-Nitrophenol	ND	62.6	"								
3- & 4-Methylphenols	ND	62.6	"								
3,3'-Dichlorobenzidine	ND	62.6	"								
3-Nitroaniline	ND	125	"								
4,6-Dinitro-2-methylphenol	ND	125	"								
4-Bromophenyl phenyl ether	ND	62.6	"								
4-Chloro-3-methylphenol	ND	62.6	"								
4-Chloroaniline	ND	62.6	"								
4-Chlorophenyl phenyl ether	ND	62.6	"								
4-Nitroaniline	ND	125	"								
4-Nitrophenol	ND	125	"								
Acenaphthene	ND	62.6	"								
Acenaphthylene	ND	62.6	"								
Acetophenone	ND	62.6	"								
Aniline	ND	250	"								
Anthracene	ND	62.6	"								
Atrazine	ND	62.6	"								
Benzaldehyde	ND	62.6	"								
Benzidine	ND	250	"								
Benzo(a)anthracene	ND	62.6	"								
Benzo(a)pyrene	ND	62.6	"								
Benzo(b)fluoranthene	ND	62.6	"								
Benzo(g,h,i)perylene	ND	62.6	"								
Benzo(k)fluoranthene	ND	62.6	"								
Benzoic acid	ND	62.6	"								
Benzyl alcohol	ND	62.6	"								
Benzyl butyl phthalate	ND	62.6	"								
Bis(2-chloroethoxy)methane	ND	62.6	"								
Bis(2-chloroethyl)ether	ND	62.6	"								
Bis(2-chloroisopropyl)ether	ND	62.6	"								
Bis(2-ethylhexyl)phthalate	ND	62.6	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BJ50747 - EPA 3546 SVOA

Blank (BJ50747-BLK1)

Prepared: 10/15/2015 Analyzed: 10/16/2015

Caprolactam	ND	125	ug/kg wet								
Carbazole	ND	62.6	"								
Chrysene	ND	62.6	"								
Dibenzo(a,h)anthracene	ND	62.6	"								
Dibenzofuran	ND	62.6	"								
Diethyl phthalate	ND	62.6	"								
Dimethyl phthalate	ND	62.6	"								
Di-n-butyl phthalate	ND	62.6	"								
Di-n-octyl phthalate	ND	62.6	"								
Fluoranthene	ND	62.6	"								
Fluorene	ND	62.6	"								
Hexachlorobenzene	ND	62.6	"								
Hexachlorobutadiene	ND	62.6	"								
Hexachlorocyclopentadiene	ND	62.6	"								
Hexachloroethane	ND	62.6	"								
Indeno(1,2,3-cd)pyrene	ND	62.6	"								
Isophorone	ND	62.6	"								
Naphthalene	ND	62.6	"								
Nitrobenzene	ND	62.6	"								
N-Nitrosodimethylamine	ND	62.6	"								
N-nitroso-di-n-propylamine	ND	62.6	"								
N-Nitrosodiphenylamine	ND	62.6	"								
Pentachlorophenol	ND	62.6	"								
Phenanthrene	ND	62.6	"								
Phenol	ND	62.6	"								
Pyrene	ND	62.6	"								
<i>Surrogate: 2-Fluorophenol</i>	810		"	3760		21.6		10-95			
<i>Surrogate: Phenol-d5</i>	995		"	3750		26.5		10-107			
<i>Surrogate: Nitrobenzene-d5</i>	570		"	2510		22.7		10-95			
<i>Surrogate: 2-Fluorobiphenyl</i>	594		"	2500		23.8		10-97			
<i>Surrogate: 2,4,6-Tribromophenol</i>	612		"	3760		16.3		10-103			
<i>Surrogate: Terphenyl-d14</i>	644		"	2510		25.7		19-99			



Semivolatile Organic Compounds by GC/MS - 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 BJ50747 - EPA 3546 SVOA

LCS (BJ50747-BS1)

Prepared: 10/15/2015 Analyzed: 10/16/2015

1,1'-Biphenyl	880	62.6	ug/kg wet				22-103				
1,2,4,5-Tetrachlorobenzene	1920	125	"	2500		76.8	10-144				
1,2,4-Trichlorobenzene	1290	62.6	"	2500		51.5	23-130				
1,2-Dichlorobenzene	1360	62.6	"	2500		54.2	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	1340	62.6	"	2500		53.4	10-140				
1,3-Dichlorobenzene	1580	62.6	"	2500		63.1	32-113				
1,4-Dichlorobenzene	1470	62.6	"	2500		58.8	28-111				
2,3,4,6-Tetrachlorophenol	846	125	"	2500		33.9	30-130				
2,4,5-Trichlorophenol	994	62.6	"	2500		39.7	14-138				
2,4,6-Trichlorophenol	1270	62.6	"	2500		50.8	27-122				
2,4-Dichlorophenol	1260	62.6	"	2500		50.3	23-133				
2,4-Dimethylphenol	1350	62.6	"	2500		53.9	15-131				
2,4-Dinitrophenol	310	125	"	2500		12.4	10-149				
2,4-Dinitrotoluene	1700	62.6	"	2500		68.0	30-123				
2,6-Dinitrotoluene	1750	62.6	"	2500		70.0	30-125				
2-Chloronaphthalene	1420	62.6	"	2500		57.0	22-115				
2-Chlorophenol	1540	62.6	"	2500		61.4	25-121				
2-Methylnaphthalene	1460	62.6	"	2500		58.5	16-127				
2-Methylphenol	1520	62.6	"	2500		60.7	10-146				
2-Nitroaniline	1620	125	"	2500		65.0	24-126				
2-Nitrophenol	1400	62.6	"	2500		56.1	17-129				
3- & 4-Methylphenols	1510	62.6	"	2500		60.4	20-109				
3,3'-Dichlorobenzidine	2220	62.6	"	2500		88.6	10-147				
3-Nitroaniline	1670	125	"	2500		66.8	23-123				
4,6-Dinitro-2-methylphenol	828	125	"	2500		33.1	10-149				
4-Bromophenyl phenyl ether	1620	62.6	"	2500		64.8	30-138				
4-Chloro-3-methylphenol	1390	62.6	"	2500		55.5	16-138				
4-Chloroaniline	1350	62.6	"	2500		54.0	10-117				
4-Chlorophenyl phenyl ether	1550	62.6	"	2500		62.0	18-132				
4-Nitroaniline	1440	125	"	2500		57.4	14-125				
4-Nitrophenol	894	125	"	2500		35.7	10-136				
Acenaphthene	1370	62.6	"	2500		54.8	17-124				
Acenaphthylene	1310	62.6	"	2500		52.4	16-124				
Acetophenone	998	62.6	"	2500		39.9	28-105				
Aniline	1400	250	"	2500		55.8	10-111				
Anthracene	1300	62.6	"	2500		52.1	24-124				
Atrazine	896	62.6	"	2500		35.8	22-120				
Benzaldehyde	953	62.6	"	2500		38.1	21-100				
Benzo(a)anthracene	1490	62.6	"	2500		59.6	25-134				
Benzo(a)pyrene	1740	62.6	"	2500		69.6	29-144				
Benzo(b)fluoranthene	1640	62.6	"	2500		65.6	20-151				
Benzo(g,h,i)perylene	1830	62.6	"	2500		73.2	10-153				
Benzo(k)fluoranthene	1690	62.6	"	2500		67.7	10-148				
Benzoic acid	84.0	62.6	"	2500		3.36	10-116	Low Bias			
Benzyl alcohol	1590	62.6	"	2500		63.7	17-128				
Benzyl butyl phthalate	1480	62.6	"	2500		59.1	10-132				
Bis(2-chloroethoxy)methane	1400	62.6	"	2500		55.9	10-129				
Bis(2-chloroethyl)ether	1460	62.6	"	2500		58.4	14-125				
Bis(2-chloroisopropyl)ether	1600	62.6	"	2500		64.2	14-122				
Bis(2-ethylhexyl)phthalate	1380	62.6	"	2500		55.0	10-141				
Caprolactam	824	125	"	2500		33.0	10-123				



Semivolatile Organic Compounds by GC/MS - 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 BJ50747 - EPA 3546 SVOA

LCS (BJ50747-BS1)

Prepared: 10/15/2015 Analyzed: 10/16/2015

Carbazole	1500	62.6	ug/kg wet	2500		60.1	31-120				
Chrysene	1680	62.6	"	2500		67.3	24-116				
Dibenzo(a,h)anthracene	1930	62.6	"	2500		77.1	17-147				
Dibenzofuran	1390	62.6	"	2500		55.5	23-123				
Diethyl phthalate	1410	62.6	"	2500		56.5	23-122				
Dimethyl phthalate	1490	62.6	"	2500		59.5	28-127				
Di-n-butyl phthalate	1400	62.6	"	2500		56.0	19-123				
Di-n-octyl phthalate	1390	62.6	"	2500		55.6	10-132				
Fluoranthene	1480	62.6	"	2500		59.2	36-125				
Fluorene	1470	62.6	"	2500		59.0	16-130				
Hexachlorobenzene	1260	62.6	"	2500		50.5	10-129				
Hexachlorobutadiene	1440	62.6	"	2500		57.6	22-153				
Hexachlorocyclopentadiene	167	62.6	"	2500		6.68	10-134	Low Bias			
Hexachloroethane	1370	62.6	"	2500		54.7	20-112				
Indeno(1,2,3-cd)pyrene	1800	62.6	"	2500		72.0	10-155				
Isophorone	1360	62.6	"	2500		54.5	14-131				
Naphthalene	1430	62.6	"	2500		57.2	20-121				
Nitrobenzene	1480	62.6	"	2500		59.2	20-121				
N-Nitrosodimethylamine	1900	62.6	"	2500		75.9	10-124				
N-nitroso-di-n-propylamine	1560	62.6	"	2500		62.5	21-119				
N-Nitrosodiphenylamine	1540	62.6	"	2500		61.5	10-163				
Pentachlorophenol	702	62.6	"	2500		28.1	10-143				
Phenanthrene	1460	62.6	"	2500		58.2	24-123				
Phenol	1740	62.6	"	2500		69.4	15-123				
Pyrene	1560	62.6	"	2500		62.3	24-132				
Surrogate: 2-Fluorophenol	1380		"	3760		36.8	10-95				
Surrogate: Phenol-d5	1330		"	3750		35.5	10-107				
Surrogate: Nitrobenzene-d5	844		"	2510		33.6	10-95				
Surrogate: 2-Fluorobiphenyl	737		"	2500		29.5	10-97				
Surrogate: 2,4,6-Tribromophenol	1490		"	3760		39.5	30-130				
Surrogate: Terphenyl-d14	1040		"	2510		41.6	19-99				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50747 - EPA 3546 SVOA											
LCS Dup (BJ50747-BSD1)											
Prepared: 10/15/2015 Analyzed: 10/16/2015											
1,1'-Biphenyl	796	62.6	ug/kg wet				22-103		10.0	30	
1,2,4,5-Tetrachlorobenzene	1600	125	"	2500		64.0	10-144		18.3	30	
1,2,4-Trichlorobenzene	1050	62.6	"	2500		42.0	23-130		20.3	30	
1,2-Dichlorobenzene	1100	62.6	"	2500		44.1	26-113		20.7	30	
1,2-Diphenylhydrazine (as Azobenzene)	1130	62.6	"	2500		45.3	10-140		16.4	30	
1,3-Dichlorobenzene	1210	62.6	"	2500		48.6	32-113		26.0	30	
1,4-Dichlorobenzene	1200	62.6	"	2500		47.8	28-111		20.6	30	
2,3,4,6-Tetrachlorophenol	946	125	"	2500		37.8	30-130		11.0	30	
2,4,5-Trichlorophenol	722	62.6	"	2500		28.9	14-138		31.7	30	Non-dir.
2,4,6-Trichlorophenol	979	62.6	"	2500		39.2	27-122		25.9	30	
2,4-Dichlorophenol	1030	62.6	"	2500		41.2	23-133		19.8	30	
2,4-Dimethylphenol	1120	62.6	"	2500		44.9	15-131		18.3	30	
2,4-Dinitrophenol	122	125	"	2500		4.88	10-149	Low Bias	87.0	30	Non-dir.
2,4-Dinitrotoluene	1360	62.6	"	2500		54.4	30-123		22.2	30	
2,6-Dinitrotoluene	1400	62.6	"	2500		55.8	30-125		22.5	30	
2-Chloronaphthalene	1160	62.6	"	2500		46.6	22-115		20.1	30	
2-Chlorophenol	1110	62.6	"	2500		44.3	25-121		32.4	30	Non-dir.
2-Methylnaphthalene	1220	62.6	"	2500		48.8	16-127		18.1	30	
2-Methylphenol	1060	62.6	"	2500		42.6	10-146		35.1	30	Non-dir.
2-Nitroaniline	1250	125	"	2500		50.0	24-126		26.1	30	
2-Nitrophenol	1070	62.6	"	2500		43.0	17-129		26.5	30	
3- & 4-Methylphenols	1200	62.6	"	2500		47.8	20-109		23.3	30	
3,3'-Dichlorobenzidine	1730	62.6	"	2500		69.1	10-147		24.8	30	
3-Nitroaniline	1330	125	"	2500		53.1	23-123		22.8	30	
4,6-Dinitro-2-methylphenol	546	125	"	2500		21.8	10-149		41.1	30	Non-dir.
4-Bromophenyl phenyl ether	1440	62.6	"	2500		57.4	30-138		12.1	30	
4-Chloro-3-methylphenol	1110	62.6	"	2500		44.5	16-138		21.9	30	
4-Chloroaniline	1010	62.6	"	2500		40.2	10-117		29.3	30	
4-Chlorophenyl phenyl ether	1270	62.6	"	2500		51.0	18-132		19.5	30	
4-Nitroaniline	1170	125	"	2500		46.9	14-125		20.3	30	
4-Nitrophenol	603	125	"	2500		24.1	10-136		38.8	30	Non-dir.
Acenaphthene	1130	62.6	"	2500		45.2	17-124		19.1	30	
Acenaphthylene	1080	62.6	"	2500		43.4	16-124		18.8	30	
Acetophenone	806	62.6	"	2500		32.2	28-105		21.4	30	
Aniline	1020	250	"	2500		41.0	10-111		30.7	30	Non-dir.
Anthracene	1170	62.6	"	2500		46.9	24-124		10.4	30	
Atrazine	838	62.6	"	2500		33.5	22-120		6.69	30	
Benzaldehyde	828	62.6	"	2500		33.1	21-100		14.1	30	
Benzo(a)anthracene	1210	62.6	"	2500		48.4	25-134		20.8	30	
Benzo(a)pyrene	1350	62.6	"	2500		54.1	29-144		25.0	30	
Benzo(b)fluoranthene	1140	62.6	"	2500		45.7	20-151		35.7	30	Non-dir.
Benzo(g,h,i)perylene	1460	62.6	"	2500		58.5	10-153		22.3	30	
Benzo(k)fluoranthene	1520	62.6	"	2500		60.9	10-148		10.6	30	
Benzoic acid	60.0	62.6	"	2500		2.40	10-116	Low Bias	33.3	30	Non-dir.
Benzyl alcohol	1190	62.6	"	2500		47.7	17-128		28.8	30	
Benzyl butyl phthalate	1120	62.6	"	2500		45.0	10-132		27.1	30	
Bis(2-chloroethoxy)methane	1140	62.6	"	2500		45.5	10-129		20.4	30	
Bis(2-chloroethyl)ether	1120	62.6	"	2500		44.7	14-125		26.6	30	
Bis(2-chloroisopropyl)ether	1210	62.6	"	2500		48.3	14-122		28.2	30	
Bis(2-ethylhexyl)phthalate	1070	62.6	"	2500		42.6	10-141		25.4	30	
Caprolactam	582	125	"	2500		23.3	10-123		34.3	30	Non-dir.



Semivolatile Organic Compounds by GC/MS - 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 BJ50747 - EPA 3546 SVOA

LCS Dup (BJ50747-BSD1)

Prepared: 10/15/2015 Analyzed: 10/16/2015

Carbazole	1380	62.6	ug/kg wet	2500		55.3	31-120		8.35	30	
Chrysene	1320	62.6	"	2500		52.9	24-116		23.9	30	
Dibenzo(a,h)anthracene	1490	62.6	"	2500		59.4	17-147		25.9	30	
Dibenzofuran	1130	62.6	"	2500		45.3	23-123		20.3	30	
Diethyl phthalate	1120	62.6	"	2500		44.9	23-122		22.9	30	
Dimethyl phthalate	1150	62.6	"	2500		46.0	28-127		25.5	30	
Di-n-butyl phthalate	1200	62.6	"	2500		47.9	19-123		15.5	30	
Di-n-octyl phthalate	1100	62.6	"	2500		44.2	10-132		22.9	30	
Fluoranthene	1290	62.6	"	2500		51.5	36-125		13.8	30	
Fluorene	1230	62.6	"	2500		49.0	16-130		18.4	30	
Hexachlorobenzene	1090	62.6	"	2500		43.5	10-129		14.9	30	
Hexachlorobutadiene	1200	62.6	"	2500		47.8	22-153		18.5	30	
Hexachlorocyclopentadiene	103	62.6	"	2500		4.12	10-134	Low Bias	47.4	30	Non-dir.
Hexachloroethane	982	62.6	"	2500		39.3	20-112		32.9	30	Non-dir.
Indeno(1,2,3-cd)pyrene	1400	62.6	"	2500		56.1	10-155		24.9	30	
Isophorone	1090	62.6	"	2500		43.4	14-131		22.7	30	
Naphthalene	1170	62.6	"	2500		47.0	20-121		19.7	30	
Nitrobenzene	1190	62.6	"	2500		47.5	20-121		21.9	30	
N-Nitrosodimethylamine	1320	62.6	"	2500		52.7	10-124		36.2	30	Non-dir.
N-nitroso-di-n-propylamine	1150	62.6	"	2500		45.9	21-119		30.7	30	Non-dir.
N-Nitrosodiphenylamine	1380	62.6	"	2500		55.2	10-163		10.9	30	
Pentachlorophenol	514	62.6	"	2500		20.6	10-143		30.9	30	Non-dir.
Phenanthrene	1360	62.6	"	2500		54.3	24-123		6.97	30	
Phenol	1260	62.6	"	2500		50.2	15-123		32.0	30	Non-dir.
Pyrene	1200	62.6	"	2500		48.0	24-132		26.0	30	
Surrogate: 2-Fluorophenol	1150		"	3760		30.7	10-95				
Surrogate: Phenol-d5	1140		"	3750		30.5	10-107				
Surrogate: Nitrobenzene-d5	778		"	2510		31.0	10-95				
Surrogate: 2-Fluorobiphenyl	707		"	2500		28.3	10-97				
Surrogate: 2,4,6-Tribromophenol	1420		"	3760		37.7	30-130				
Surrogate: Terphenyl-d14	921		"	2510		36.7	19-99				



Semivolatile Organic Compounds by GC/MS - 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 BJ50827 - EPA 3510C

Blank (BJ50827-BLK1)

Prepared & Analyzed: 10/16/2015

1,1'-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3'-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	20.0	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzoic acid	ND	50.0	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								



Semivolatile Organic Compounds by GC/MS - 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 BJ50827 - EPA 3510C

Blank (BJ50827-BLK1)

Prepared & Analyzed: 10/16/2015

Caprolactam	ND	5.00	ug/L								
Carbazole	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Surrogate: 2-Fluorophenol	53.2		"	75.2		70.8	10-65				
Surrogate: Phenol-d5	58.8		"	75.0		78.4	10-49				
Surrogate: Nitrobenzene-d5	52.4		"	50.2		104	10-96				
Surrogate: 2-Fluorobiphenyl	49.5		"	50.0		99.1	10-93				
Surrogate: 2,4,6-Tribromophenol	82.3		"	75.2		109	10-128				
Surrogate: Terphenyl-d14	61.0		"	50.2		122	10-100				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50827 - EPA 3510C											
LCS (BJ50827-BS1)											
Prepared & Analyzed: 10/16/2015											
1,1'-Biphenyl	29.1	5.00	ug/L				21-102				
1,2,4,5-Tetrachlorobenzene	53.1	5.00	"	50.0		106	28-105	High Bias			
1,2,4-Trichlorobenzene	47.4	5.00	"	50.0		94.7	35-91	High Bias			
1,2-Dichlorobenzene	30.9	5.00	"	50.0		61.8	42-85				
1,2-Diphenylhydrazine (as Azobenzene)	32.5	5.00	"	50.0		65.0	16-137				
1,3-Dichlorobenzene	31.0	5.00	"	50.0		62.0	45-80				
1,4-Dichlorobenzene	31.6	5.00	"	50.0		63.2	42-82				
2,3,4,6-Tetrachlorophenol	33.6	5.00	"	50.0		67.1	30-130				
2,4,5-Trichlorophenol	43.5	5.00	"	50.0		87.1	36-112				
2,4,6-Trichlorophenol	47.8	5.00	"	50.0		95.7	41-107				
2,4-Dichlorophenol	48.4	5.00	"	50.0		96.7	43-92	High Bias			
2,4-Dimethylphenol	40.9	5.00	"	50.0		81.9	25-92				
2,4-Dinitrophenol	46.5	5.00	"	50.0		93.0	10-149				
2,4-Dinitrotoluene	43.5	5.00	"	50.0		87.0	41-114				
2,6-Dinitrotoluene	41.5	5.00	"	50.0		83.1	49-106				
2-Chloronaphthalene	35.9	5.00	"	50.0		71.8	40-96				
2-Chlorophenol	29.6	5.00	"	50.0		59.1	35-84				
2-Methylnaphthalene	ND	5.00	"	50.0			33-101	Low Bias			
2-Methylphenol	ND	5.00	"	50.0			10-90	Low Bias			
2-Nitroaniline	33.6	5.00	"	50.0		67.2	31-122				
2-Nitrophenol	37.6	5.00	"	50.0		75.2	37-97				
3- & 4-Methylphenols	29.1	5.00	"	50.0		58.3	10-101				
3,3'-Dichlorobenzidine	68.5	5.00	"	50.0		137	25-155				
3-Nitroaniline	ND	5.00	"	50.0			29-128	Low Bias			
4,6-Dinitro-2-methylphenol	45.3	5.00	"	50.0		90.6	10-135				
4-Bromophenyl phenyl ether	39.6	5.00	"	50.0		79.3	38-116				
4-Chloro-3-methylphenol	ND	5.00	"	50.0			28-101	Low Bias			
4-Chloroaniline	27.6	5.00	"	50.0		55.3	10-154				
4-Chlorophenyl phenyl ether	46.6	5.00	"	50.0		93.3	34-112				
4-Nitroaniline	ND	5.00	"	50.0			15-143	Low Bias			
4-Nitrophenol	ND	5.00	"	50.0			10-112	Low Bias			
Acenaphthene	42.7	0.0500	"	50.0		85.4	24-114				
Acenaphthylene	35.6	0.0500	"	50.0		71.1	26-112				
Acetophenone	37.1	5.00	"	50.0		74.1	47-92				
Aniline	29.6	5.00	"	50.0		59.3	10-107				
Anthracene	43.5	0.0500	"	50.0		86.9	35-114				
Atrazine	36.2	0.500	"	50.0		72.4	43-101				
Benzaldehyde	23.7	5.00	"	50.0		47.4	17-117				
Benzo(a)anthracene	39.8	0.0500	"	50.0		79.5	38-127				
Benzo(a)pyrene	47.0	0.0500	"	50.0		94.0	30-146				
Benzo(b)fluoranthene	43.2	0.0500	"	50.0		86.3	36-145				
Benzo(g,h,i)perylene	68.3	0.0500	"	50.0		137	10-163				
Benzo(k)fluoranthene	41.1	0.0500	"	50.0		82.2	16-149				
Benzoic acid	ND	5.00	"	50.0			30-130	Low Bias			
Benzyl alcohol	32.2	5.00	"	50.0		64.4	18-75				
Benzyl butyl phthalate	31.7	5.00	"	50.0		63.4	28-129				
Bis(2-chloroethoxy)methane	40.4	5.00	"	50.0		80.8	27-112				
Bis(2-chloroethyl)ether	32.6	5.00	"	50.0		65.2	24-114				
Bis(2-chloroisopropyl)ether	37.1	5.00	"	50.0		74.3	21-124				
Bis(2-ethylhexyl)phthalate	33.5	0.500	"	50.0		67.0	10-171				
Caprolactam	ND	5.00	"	50.0			10-29	Low Bias			



Semivolatile Organic Compounds by GC/MS - 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 BJ50827 - EPA 3510C

LCS (BJ50827-BS1)

Prepared & Analyzed: 10/16/2015

Carbazole	ND	5.00	ug/L	50.0			49-116	Low Bias			
Chrysene	38.2	0.0500	"	50.0		76.4	33-120				
Dibenzo(a,h)anthracene	68.2	0.0500	"	50.0		136	10-149				
Dibenzofuran	41.9	5.00	"	50.0		83.9	42-105				
Diethyl phthalate	39.4	5.00	"	50.0		78.8	38-112				
Dimethyl phthalate	41.4	5.00	"	50.0		82.9	49-106				
Di-n-butyl phthalate	34.3	5.00	"	50.0		68.6	36-110				
Di-n-octyl phthalate	36.2	5.00	"	50.0		72.3	12-149				
Fluoranthene	45.2	0.0500	"	50.0		90.3	33-126				
Fluorene	46.0	0.0500	"	50.0		92.0	28-117				
Hexachlorobenzene	34.7	0.0200	"	50.0		69.4	27-120				
Hexachlorobutadiene	54.4	0.500	"	50.0		109	25-106	High Bias			
Hexachlorocyclopentadiene	29.9	5.00	"	50.0		59.8	10-99				
Hexachloroethane	31.9	0.500	"	50.0		63.8	33-84				
Indeno(1,2,3-cd)pyrene	63.6	0.0500	"	50.0		127	10-150				
Isophorone	41.3	5.00	"	50.0		82.7	29-115				
Naphthalene	43.0	0.0500	"	50.0		86.0	30-99				
Nitrobenzene	57.9	0.250	"	50.0		116	32-113	High Bias			
N-Nitrosodimethylamine	19.7	0.500	"	50.0		39.4	10-63				
N-nitroso-di-n-propylamine	33.6	5.00	"	50.0		67.1	36-118				
N-Nitrosodiphenylamine	46.6	5.00	"	50.0		93.3	27-145				
Pentachlorophenol	31.4	0.250	"	50.0		62.8	19-127				
Phenanthrene	46.0	0.0500	"	50.0		92.1	31-112				
Phenol	ND	5.00	"	50.0			10-37	Low Bias			
Pyrene	40.6	0.0500	"	50.0		81.2	42-125				
<i>Surrogate: 2-Fluorophenol</i>	<i>57.9</i>		<i>"</i>	<i>75.2</i>		<i>77.0</i>	<i>10-65</i>				
<i>Surrogate: Phenol-d5</i>	<i>68.5</i>		<i>"</i>	<i>75.0</i>		<i>91.3</i>	<i>10-49</i>				
<i>Surrogate: Nitrobenzene-d5</i>	<i>58.7</i>		<i>"</i>	<i>50.2</i>		<i>117</i>	<i>10-96</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>55.8</i>		<i>"</i>	<i>50.0</i>		<i>112</i>	<i>10-93</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>104</i>		<i>"</i>	<i>75.2</i>		<i>138</i>	<i>10-128</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>55.6</i>		<i>"</i>	<i>50.2</i>		<i>111</i>	<i>10-100</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50827 - EPA 3510C											
LCS (BJ50827-BS2)											
Prepared & Analyzed: 10/16/2015											
1,1'-Biphenyl	ND	5.00	ug/L				21-102				
1,2,4,5-Tetrachlorobenzene	ND	5.00	"				28-105				
1,2,4-Trichlorobenzene	ND	5.00	"				35-91				
1,2-Dichlorobenzene	ND	5.00	"				42-85				
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"				16-137				
1,3-Dichlorobenzene	ND	5.00	"				45-80				
1,4-Dichlorobenzene	ND	5.00	"				42-82				
2,3,4,6-Tetrachlorophenol	ND	5.00	"				30-130				
2,4,5-Trichlorophenol	ND	5.00	"				36-112				
2,4,6-Trichlorophenol	ND	5.00	"				41-107				
2,4-Dichlorophenol	ND	5.00	"				43-92				
2,4-Dimethylphenol	ND	5.00	"				25-92				
2,4-Dinitrophenol	ND	5.00	"				10-149				
2,4-Dinitrotoluene	ND	5.00	"				41-114				
2,6-Dinitrotoluene	ND	5.00	"				49-106				
2-Chloronaphthalene	ND	5.00	"				40-96				
2-Chlorophenol	ND	5.00	"				35-84				
2-Methylnaphthalene	ND	5.00	"				33-101				
2-Methylphenol	ND	5.00	"				10-90				
2-Nitroaniline	ND	5.00	"				31-122				
2-Nitrophenol	ND	5.00	"				37-97				
3- & 4-Methylphenols	ND	5.00	"				10-101				
3,3'-Dichlorobenzidine	ND	5.00	"				25-155				
3-Nitroaniline	ND	5.00	"				29-128				
4,6-Dinitro-2-methylphenol	ND	5.00	"				10-135				
4-Bromophenyl phenyl ether	ND	5.00	"				38-116				
4-Chloro-3-methylphenol	ND	5.00	"				28-101				
4-Chloroaniline	ND	5.00	"				10-154				
4-Chlorophenyl phenyl ether	ND	5.00	"				34-112				
4-Nitroaniline	ND	5.00	"				15-143				
4-Nitrophenol	ND	5.00	"				10-112				
Acenaphthene	1.00	0.0500	"	1.00		100	24-114				
Acenaphthylene	1.15	0.0500	"	1.00		115	26-112	High Bias			
Acetophenone	ND	5.00	"				47-92				
Aniline	ND	5.00	"				10-107				
Anthracene	0.960	0.0500	"	1.00		96.0	35-114				
Atrazine	ND	0.500	"				43-101				
Benzaldehyde	ND	5.00	"				17-117				
Benzo(a)anthracene	1.04	0.0500	"	1.00		104	38-127				
Benzo(a)pyrene	1.14	0.0500	"	1.00		114	30-146				
Benzo(b)fluoranthene	1.06	0.0500	"	1.00		106	36-145				
Benzo(g,h,i)perylene	1.06	0.0500	"	1.00		106	10-163				
Benzo(k)fluoranthene	1.12	0.0500	"	1.00		112	16-149				
Benzoic acid	ND	50.0	"				30-130				
Benzyl alcohol	ND	5.00	"				18-75				
Benzyl butyl phthalate	ND	5.00	"				28-129				
Bis(2-chloroethoxy)methane	ND	5.00	"				27-112				
Bis(2-chloroethyl)ether	ND	5.00	"				24-114				
Bis(2-chloroisopropyl)ether	ND	5.00	"				21-124				
Bis(2-ethylhexyl)phthalate	ND	0.500	"				10-171				
Caprolactam	ND	5.00	"				10-29				



Semivolatile Organic Compounds by GC/MS - 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 BJ50827 - EPA 3510C

LCS (BJ50827-BS2)

Prepared & Analyzed: 10/16/2015

Carbazole	ND	5.00	ug/L				49-116				
Chrysene	1.01	0.0500	"	1.00		101	33-120				
Dibenzo(a,h)anthracene	1.15	0.0500	"	1.00		115	10-149				
Dibenzofuran	ND	5.00	"				42-105				
Diethyl phthalate	ND	5.00	"				38-112				
Dimethyl phthalate	ND	5.00	"				49-106				
Di-n-butyl phthalate	ND	5.00	"				36-110				
Di-n-octyl phthalate	ND	5.00	"				12-149				
Fluoranthene	1.09	0.0500	"	1.00		109	33-126				
Fluorene	1.09	0.0500	"	1.00		109	28-117				
Hexachlorobenzene	ND	0.0200	"				27-120				
Hexachlorobutadiene	ND	0.500	"				25-106				
Hexachlorocyclopentadiene	ND	5.00	"				10-99				
Hexachloroethane	ND	0.500	"				33-84				
Indeno(1,2,3-cd)pyrene	1.13	0.0500	"	1.00		113	10-150				
Isophorone	ND	5.00	"				29-115				
Naphthalene	1.00	0.0500	"	1.00		100	30-99	High Bias			
Nitrobenzene	0.280	0.250	"				32-113				
N-Nitrosodimethylamine	ND	0.500	"				10-63				
N-nitroso-di-n-propylamine	ND	5.00	"				36-118				
N-Nitrosodiphenylamine	ND	5.00	"				27-145				
Pentachlorophenol	ND	0.250	"				19-127				
Phenanthrene	0.960	0.0500	"	1.00		96.0	31-112				
Phenol	ND	5.00	"				10-37				
Pyrene	1.05	0.0500	"	1.00		105	42-125				
Surrogate: 2-Fluorophenol	0.00		"	75.2			10-65				
Surrogate: Phenol-d5	0.00		"	75.0			10-49				
Surrogate: Nitrobenzene-d5	0.00		"	50.2			10-96				
Surrogate: 2-Fluorobiphenyl	0.00		"	50.0			10-93				
Surrogate: 2,4,6-Tribromophenol	0.00		"	75.2			10-128				
Surrogate: Terphenyl-d14	0.00		"	50.2			10-100				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50827 - EPA 3510C											
LCS Dup (BJ50827-BSD1)											
										Prepared & Analyzed: 10/16/2015	
1,1'-Biphenyl	29.7	5.00	ug/L				21-102		2.07	20	
1,2,4,5-Tetrachlorobenzene	51.5	5.00	"	50.0		103	28-105		3.04	20	
1,2,4-Trichlorobenzene	44.4	5.00	"	50.0		88.8	35-91		6.43	20	
1,2-Dichlorobenzene	29.6	5.00	"	50.0		59.2	42-85		4.37	20	
1,2-Diphenylhydrazine (as Azobenzene)	31.6	5.00	"	50.0		63.2	16-137		2.87	20	
1,3-Dichlorobenzene	29.6	5.00	"	50.0		59.3	45-80		4.48	20	
1,4-Dichlorobenzene	30.0	5.00	"	50.0		60.0	42-82		5.10	20	
2,3,4,6-Tetrachlorophenol	ND	5.00	"	50.0			30-130	Low Bias		20	
2,4,5-Trichlorophenol	41.8	5.00	"	50.0		83.6	36-112		4.08	20	
2,4,6-Trichlorophenol	46.0	5.00	"	50.0		91.9	41-107		4.05	20	
2,4-Dichlorophenol	46.2	5.00	"	50.0		92.3	43-92	High Bias	4.66	20	
2,4-Dimethylphenol	39.0	5.00	"	50.0		78.1	25-92		4.73	20	
2,4-Dinitrophenol	48.3	5.00	"	50.0		96.6	10-149		3.78	20	
2,4-Dinitrotoluene	42.4	5.00	"	50.0		84.8	41-114		2.56	20	
2,6-Dinitrotoluene	40.0	5.00	"	50.0		80.0	49-106		3.78	20	
2-Chloronaphthalene	35.3	5.00	"	50.0		70.6	40-96		1.71	20	
2-Chlorophenol	28.6	5.00	"	50.0		57.2	35-84		3.30	20	
2-Methylnaphthalene	42.4	5.00	"	50.0		84.9	33-101			20	
2-Methylphenol	29.7	5.00	"	50.0		59.4	10-90			20	
2-Nitroaniline	33.0	5.00	"	50.0		66.1	31-122		1.59	20	
2-Nitrophenol	35.7	5.00	"	50.0		71.3	37-97		5.30	20	
3- & 4-Methylphenols	28.4	5.00	"	50.0		56.9	10-101		2.43	20	
3,3'-Dichlorobenzidine	67.6	5.00	"	50.0		135	25-155		1.22	20	
3-Nitroaniline	ND	5.00	"	50.0			29-128	Low Bias		20	
4,6-Dinitro-2-methylphenol	44.5	5.00	"	50.0		89.0	10-135		1.80	20	
4-Bromophenyl phenyl ether	37.9	5.00	"	50.0		75.8	38-116		4.46	20	
4-Chloro-3-methylphenol	49.0	5.00	"	50.0		97.9	28-101			20	
4-Chloroaniline	27.4	5.00	"	50.0		54.7	10-154		1.02	20	
4-Chlorophenyl phenyl ether	44.4	5.00	"	50.0		88.9	34-112		4.81	20	
4-Nitroaniline	35.7	5.00	"	50.0		71.4	15-143			20	
4-Nitrophenol	ND	5.00	"	50.0			10-112	Low Bias		20	
Acenaphthene	41.6	0.0500	"	50.0		83.2	24-114		2.63	20	
Acenaphthylene	34.8	0.0500	"	50.0		69.7	26-112		1.99	20	
Acetophenone	36.4	5.00	"	50.0		72.7	47-92		1.93	20	
Aniline	28.7	5.00	"	50.0		57.5	10-107		3.05	20	
Anthracene	41.6	0.0500	"	50.0		83.3	35-114		4.25	20	
Atrazine	36.6	0.500	"	50.0		73.1	43-101		0.907	20	
Benzaldehyde	23.5	5.00	"	50.0		47.0	17-117		0.762	20	
Benzo(a)anthracene	38.8	0.0500	"	50.0		77.6	38-127		2.52	20	
Benzo(a)pyrene	43.8	0.0500	"	50.0		87.5	30-146		7.16	20	
Benzo(b)fluoranthene	42.4	0.0500	"	50.0		84.9	36-145		1.68	20	
Benzo(g,h,i)perylene	66.1	0.0500	"	50.0		132	10-163		3.25	20	
Benzo(k)fluoranthene	40.4	0.0500	"	50.0		80.8	16-149		1.77	20	
Benzoic acid	ND	5.00	"	50.0			30-130	Low Bias		20	
Benzyl alcohol	31.6	5.00	"	50.0		63.2	18-75		1.82	20	
Benzyl butyl phthalate	31.1	5.00	"	50.0		62.2	28-129		1.91	20	
Bis(2-chloroethoxy)methane	38.8	5.00	"	50.0		77.6	27-112		4.02	20	
Bis(2-chloroethyl)ether	31.2	5.00	"	50.0		62.5	24-114		4.20	20	
Bis(2-chloroisopropyl)ether	35.4	5.00	"	50.0		70.7	21-124		4.88	20	
Bis(2-ethylhexyl)phthalate	32.8	0.500	"	50.0		65.5	10-171		2.26	20	
Caprolactam	ND	5.00	"	50.0			10-29	Low Bias		20	



Semivolatile Organic Compounds by GC/MS - 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 BJ50827 - EPA 3510C

LCS Dup (BJ50827-BSD1)

Prepared & Analyzed: 10/16/2015

Carbazole	37.4	5.00	ug/L	50.0		74.9	49-116				20
Chrysene	37.1	0.0500	"	50.0		74.2	33-120		2.97		20
Dibenzo(a,h)anthracene	65.7	0.0500	"	50.0		131	10-149		3.81		20
Dibenzofuran	40.6	5.00	"	50.0		81.1	42-105		3.32		20
Diethyl phthalate	37.9	5.00	"	50.0		75.8	38-112		3.96		20
Dimethyl phthalate	40.0	5.00	"	50.0		80.1	49-106		3.49		20
Di-n-butyl phthalate	33.2	5.00	"	50.0		66.3	36-110		3.41		20
Di-n-octyl phthalate	35.7	5.00	"	50.0		71.5	12-149		1.20		20
Fluoranthene	43.2	0.0500	"	50.0		86.4	33-126		4.44		20
Fluorene	44.5	0.0500	"	50.0		89.1	28-117		3.27		20
Hexachlorobenzene	32.9	0.0200	"	50.0		65.8	27-120		5.39		20
Hexachlorobutadiene	49.9	0.500	"	50.0		99.8	25-106		8.63		20
Hexachlorocyclopentadiene	30.3	5.00	"	50.0		60.5	10-99		1.23		20
Hexachloroethane	30.4	0.500	"	50.0		60.8	33-84		4.82		20
Indeno(1,2,3-cd)pyrene	61.3	0.0500	"	50.0		123	10-150		3.75		20
Isophorone	39.3	5.00	"	50.0		78.7	29-115		4.93		20
Naphthalene	40.2	0.0500	"	50.0		80.4	30-99		6.76		20
Nitrobenzene	53.9	0.250	"	50.0		108	32-113		7.10		20
N-Nitrosodimethylamine	21.4	0.500	"	50.0		42.9	10-63		8.51		20
N-nitroso-di-n-propylamine	32.7	5.00	"	50.0		65.4	36-118		2.60		20
N-Nitrosodiphenylamine	44.4	5.00	"	50.0		88.8	27-145		4.99		20
Pentachlorophenol	30.0	0.250	"	50.0		59.9	19-127		4.72		20
Phenanthrene	44.1	0.0500	"	50.0		88.2	31-112		4.30		20
Phenol	ND	5.00	"	50.0			10-37	Low Bias			20
Pyrene	39.6	0.0500	"	50.0		79.3	42-125		2.44		20
Surrogate: 2-Fluorophenol	58.0		"	75.2		77.1	10-65				
Surrogate: Phenol-d5	69.0		"	75.0		92.0	10-49				
Surrogate: Nitrobenzene-d5	57.8		"	50.2		115	10-96				
Surrogate: 2-Fluorobiphenyl	56.0		"	50.0		112	10-93				
Surrogate: 2,4,6-Tribromophenol	101		"	75.2		135	10-128				
Surrogate: Terphenyl-d14	56.8		"	50.2		113	10-100				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

Batch BJ50702 - EPA 3550C

Blank (BJ50702-BLK1)

Prepared: 10/14/2015 Analyzed: 10/15/2015

4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
beta-BHC	ND	0.330	"								
Chlordane, total	ND	1.32	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
Endrin aldehyde	ND	0.330	"								
Endrin ketone	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
Heptachlor	ND	0.330	"								
Heptachlor epoxide	ND	0.330	"								
Methoxychlor	ND	1.65	"								
Toxaphene	ND	16.7	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	69.5		"	67.0		104		30-140			
<i>Surrogate: Decachlorobiphenyl</i>	71.8		"	69.0		104		30-140			

LCS (BJ50702-BS1)

Prepared: 10/14/2015 Analyzed: 10/15/2015

4,4'-DDD	36.3	0.330	ug/kg wet	33.3		109		40-140			
4,4'-DDE	29.2	0.330	"	33.3		87.7		40-140			
4,4'-DDT	34.7	0.330	"	33.3		104		40-140			
Aldrin	28.6	0.330	"	33.3		85.7		40-140			
alpha-BHC	30.2	0.330	"	33.3		90.6		40-140			
beta-BHC	28.2	0.330	"	33.3		84.5		40-140			
delta-BHC	32.9	0.330	"	33.3		98.7		40-140			
Dieldrin	30.6	0.330	"	33.3		91.7		40-140			
Endosulfan I	28.9	0.330	"	33.3		86.7		40-140			
Endosulfan II	30.9	0.330	"	33.3		92.7		40-140			
Endosulfan sulfate	30.5	0.330	"	33.3		91.5		40-140			
Endrin	33.5	0.330	"	33.3		101		40-140			
Endrin aldehyde	29.3	0.330	"	33.3		88.0		40-140			
Endrin ketone	32.5	0.330	"	33.3		97.5		40-140			
gamma-BHC (Lindane)	29.1	0.330	"	33.3		87.3		40-140			
Heptachlor	27.0	0.330	"	33.3		81.0		40-140			
Heptachlor epoxide	27.8	0.330	"	33.3		83.4		40-140			
Methoxychlor	36.2	1.65	"	33.3		109		40-140			
<i>Surrogate: Tetrachloro-m-xylene</i>	49.3		"	67.0		73.5		30-140			
<i>Surrogate: Decachlorobiphenyl</i>	59.2		"	69.0		85.9		30-140			



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								Level	Result

Batch BJ50702 - EPA 3550C

LCS Dup (BJ50702-BSD1)

Prepared: 10/14/2015 Analyzed: 10/15/2015

4,4'-DDD	39.1	0.330	ug/kg wet	33.3		117	40-140			7.61	30
4,4'-DDE	34.3	0.330	"	33.3		103	40-140			15.8	30
4,4'-DDT	38.2	0.330	"	33.3		115	40-140			9.49	30
Aldrin	33.7	0.330	"	33.3		101	40-140			16.4	30
alpha-BHC	36.3	0.330	"	33.3		109	40-140			18.5	30
beta-BHC	33.8	0.330	"	33.3		101	40-140			18.1	30
delta-BHC	39.5	0.330	"	33.3		118	40-140			18.2	30
Dieldrin	35.4	0.330	"	33.3		106	40-140			14.5	30
Endosulfan I	33.7	0.330	"	33.3		101	40-140			15.3	30
Endosulfan II	35.6	0.330	"	33.3		107	40-140			14.3	30
Endosulfan sulfate	35.0	0.330	"	33.3		105	40-140			13.8	30
Endrin	39.0	0.330	"	33.3		117	40-140			15.0	30
Endrin aldehyde	34.4	0.330	"	33.3		103	40-140			15.8	30
Endrin ketone	37.6	0.330	"	33.3		113	40-140			14.5	30
gamma-BHC (Lindane)	34.7	0.330	"	33.3		104	40-140			17.6	30
Heptachlor	32.0	0.330	"	33.3		95.9	40-140			16.8	30
Heptachlor epoxide	32.3	0.330	"	33.3		96.9	40-140			15.0	30
Methoxychlor	39.8	1.65	"	33.3		119	40-140			9.29	30
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>57.9</i>		<i>"</i>	<i>67.0</i>		<i>86.4</i>	<i>30-140</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>69.5</i>		<i>"</i>	<i>69.0</i>		<i>101</i>	<i>30-140</i>				

Matrix Spike (BJ50702-MS1)

*Source sample: 15J0461-06 (SB09_17-19)

Prepared: 10/14/2015 Analyzed: 10/16/2015

4,4'-DDD	29.0	1.71	ug/kg dry	34.4	ND	84.2	30-150				
4,4'-DDE	22.8	1.71	"	34.4	ND	66.3	30-150				
4,4'-DDT	30.3	1.71	"	34.4	ND	88.0	30-150				
Aldrin	25.8	1.71	"	34.4	ND	75.0	30-150				
alpha-BHC	24.2	1.71	"	34.4	ND	70.4	30-150				
beta-BHC	29.6	1.71	"	34.4	ND	85.8	30-150				
delta-BHC	11.0	1.71	"	34.4	ND	32.0	30-150				
Dieldrin	25.6	1.71	"	34.4	ND	74.3	30-150				
Endosulfan I	25.9	1.71	"	34.4	ND	75.1	30-150				
Endosulfan II	29.3	1.71	"	34.4	ND	84.9	30-150				
Endosulfan sulfate	3.33	1.71	"	34.4	ND	9.67	30-150		Low Bias		
Endrin	30.3	1.71	"	34.4	ND	87.9	30-150				
Endrin aldehyde	31.8	1.71	"	34.4	ND	92.3	30-150				
Endrin ketone	48.1	1.71	"	34.4	ND	140	30-150				
gamma-BHC (Lindane)	25.5	1.71	"	34.4	ND	73.9	30-150				
Heptachlor	30.4	1.71	"	34.4	ND	88.1	30-150				
Heptachlor epoxide	30.6	1.71	"	34.4	ND	88.7	30-150				
Methoxychlor	43.0	8.53	"	34.4	ND	125	30-150				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>27.0</i>		<i>"</i>	<i>69.2</i>		<i>39.0</i>	<i>30-140</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>61.9</i>		<i>"</i>	<i>71.3</i>		<i>86.8</i>	<i>30-140</i>				



Organochlorine Pesticides by GC/ECD - 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 BJ50824 - EPA SW846-3510C Low Level

Blank (BJ50824-BLK1)

Prepared: 10/16/2015 Analyzed: 10/19/2015

4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
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Surrogate: Tetrachloro-m-xylene	0.226		"	0.201		113	30-120				
Surrogate: Decachlorobiphenyl	0.184		"	0.207		88.7	30-120				

LCS (BJ50824-BS1)

Prepared: 10/16/2015 Analyzed: 10/19/2015

4,4'-DDD	0.0713	0.00400	ug/L	0.100		71.3	40-120				
4,4'-DDE	0.0883	0.00400	"	0.100		88.3	40-120				
4,4'-DDT	0.0677	0.00400	"	0.100		67.7	40-120				
Aldrin	0.0782	0.00400	"	0.100		78.2	40-120				
alpha-BHC	0.0831	0.00400	"	0.100		83.1	40-120				
beta-BHC	0.0675	0.00400	"	0.100		67.5	40-120				
delta-BHC	0.0676	0.00400	"	0.100		67.6	40-120				
Dieldrin	0.0710	0.00200	"	0.100		71.0	40-120				
Endosulfan I	0.0759	0.00400	"	0.100		75.9	40-120				
Endosulfan II	0.0639	0.00400	"	0.100		63.9	40-120				
Endosulfan sulfate	0.0622	0.00400	"	0.100		62.2	40-120				
Endrin	0.0793	0.00400	"	0.100		79.3	40-120				
Endrin aldehyde	0.0644	0.0100	"	0.100		64.4	40-120				
Endrin ketone	0.0646	0.0100	"	0.100		64.6	40-120				
gamma-BHC (Lindane)	0.0713	0.00400	"	0.100		71.3	40-120				
Heptachlor	0.0639	0.00400	"	0.100		63.9	40-120				
Heptachlor epoxide	0.0678	0.00400	"	0.100		67.8	40-120				
Methoxychlor	0.0640	0.00400	"	0.100		64.0	40-120				
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Surrogate: Tetrachloro-m-xylene	0.178		"	0.201		88.6	30-120				
Surrogate: Decachlorobiphenyl	0.124		"	0.207		59.9	30-120				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit			Result					RPD	Limit
Batch BJ50824 - EPA SW846-3510C Low Level											
LCS Dup (BJ50824-BSD1)						Prepared: 10/16/2015 Analyzed: 10/19/2015					
4,4'-DDD	0.0709	0.00400	ug/L	0.100		70.9	40-120			0.526	30
4,4'-DDE	0.0905	0.00400	"	0.100		90.5	40-120			2.50	30
4,4'-DDT	0.0670	0.00400	"	0.100		67.0	40-120			0.994	30
Aldrin	0.0829	0.00400	"	0.100		82.9	40-120			5.84	30
alpha-BHC	0.0890	0.00400	"	0.100		89.0	40-120			6.87	30
beta-BHC	0.0716	0.00400	"	0.100		71.6	40-120			5.88	30
delta-BHC	0.0708	0.00400	"	0.100		70.8	40-120			4.67	30
Dieldrin	0.0737	0.00200	"	0.100		73.7	40-120			3.72	30
Endosulfan I	0.0799	0.00400	"	0.100		79.9	40-120			5.13	30
Endosulfan II	0.0650	0.00400	"	0.100		65.0	40-120			1.70	30
Endosulfan sulfate	0.0624	0.00400	"	0.100		62.4	40-120			0.173	30
Endrin	0.0798	0.00400	"	0.100		79.8	40-120			0.594	30
Endrin aldehyde	0.0642	0.0100	"	0.100		64.2	40-120			0.320	30
Endrin ketone	0.0615	0.0100	"	0.100		61.5	40-120			4.90	30
gamma-BHC (Lindane)	0.0756	0.00400	"	0.100		75.6	40-120			5.91	30
Heptachlor	0.0679	0.00400	"	0.100		67.9	40-120			6.08	30
Heptachlor epoxide	0.0709	0.00400	"	0.100		70.9	40-120			4.48	30
Methoxychlor	0.0620	0.00400	"	0.100		62.0	40-120			3.21	30
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.171</i>		<i>"</i>	<i>0.201</i>		<i>85.2</i>	<i>30-120</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.117</i>		<i>"</i>	<i>0.207</i>		<i>56.3</i>	<i>30-120</i>				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50702 - EPA 3550C											
Blank (BJ50702-BLK1)										Prepared: 10/14/2015 Analyzed: 10/15/2015	
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0853		"	0.0670		127	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0830		"	0.0690		120	30-140				
LCS (BJ50702-BS2)										Prepared: 10/14/2015 Analyzed: 10/15/2015	
Aroclor 1016	0.414	0.0167	mg/kg wet	0.333		124	40-130				
Aroclor 1260	0.418	0.0167	"	0.333		125	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0790		"	0.0670		118	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0707		"	0.0690		102	30-140				
LCS Dup (BJ50702-BSD2)										Prepared: 10/14/2015 Analyzed: 10/15/2015	
Aroclor 1016	0.419	0.0167	mg/kg wet	0.333		126	40-130		1.18	25	
Aroclor 1260	0.411	0.0167	"	0.333		123	40-130		1.80	25	
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0787		"	0.0670		117	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0703		"	0.0690		102	30-140				
Matrix Spike (BJ50702-MS2)										Prepared: 10/14/2015 Analyzed: 10/16/2015	
*Source sample: 15J0461-06 (SB09_17-19)											
Aroclor 1016	0.250	0.0172	mg/kg dry	0.344	ND	72.5	40-140				
Aroclor 1260	0.308	0.0172	"	0.344	ND	89.4	40-140				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0558		"	0.0692		80.6	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0586		"	0.0713		82.1	30-140				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50824 - EPA SW846-3510C Low Level											
Blank (BJ50824-BLK1)										Prepared & Analyzed: 10/16/2015	
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	0.239		"	0.201		119	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.256		"	0.207		124	30-120				
LCS (BJ50824-BS2)										Prepared & Analyzed: 10/16/2015	
Aroclor 1016	0.979	0.0500	ug/L	1.00		97.9	40-120				
Aroclor 1260	1.11	0.0500	"	1.00		111	40-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.238		"	0.201		118	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.247		"	0.207		119	30-120				
LCS Dup (BJ50824-BSD2)										Prepared & Analyzed: 10/16/2015	
Aroclor 1016	0.962	0.0500	ug/L	1.00		96.2	40-120		1.75	30	
Aroclor 1260	1.07	0.0500	"	1.00		107	40-120		3.96	30	
<i>Surrogate: Tetrachloro-m-xylene</i>	0.232		"	0.201		115	30-120				
<i>Surrogate: Decachlorobiphenyl</i>	0.249		"	0.207		120	30-120				



Chlorinated Herbicides by GC/ECD - 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 BJ50658 - EPA 3535A

Blank (BJ50658-BLK1)

Prepared & Analyzed: 10/14/2015

2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	164		"	125		132	30-150				

LCS (BJ50658-BS1)

Prepared & Analyzed: 10/14/2015

2,4,5-T	31.2	5.00	ug/L	40.0		78.1	40-140				
2,4,5-TP (Silvex)	30.5	5.00	"	40.0		76.2	40-140				
2,4-D	34.5	5.00	"	40.0		86.2	40-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	150		"	125		120	30-150				

LCS Dup (BJ50658-BS1)

Prepared & Analyzed: 10/14/2015

2,4,5-T	36.8	5.00	ug/L	40.0		91.9	40-140	16.2	30		
2,4,5-TP (Silvex)	35.8	5.00	"	40.0		89.4	40-140	15.8	30		
2,4-D	39.8	5.00	"	40.0		99.4	40-140	14.1	30		
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	162		"	125		129	30-150				

Batch BJ50729 - EPA 3550B/8151A

Blank (BJ50729-BLK1)

Prepared & Analyzed: 10/15/2015

2,4,5-T	ND	20.0	ug/kg wet								
2,4,5-TP (Silvex)	ND	20.0	"								
2,4-D	ND	20.0	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	584		"	500		117	30-150				

LCS (BJ50729-BS1)

Prepared & Analyzed: 10/15/2015

2,4,5-T	71.0	20.0	ug/kg wet	160		44.4	40-140				
2,4,5-TP (Silvex)	101	20.0	"	160		63.1	40-140				
2,4-D	87.0	20.0	"	160		54.4	40-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	458		"	500		91.6	30-150				



Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result		Limits		Limit			
Batch BJ50729 - EPA 3550B/8151A												
LCS Dup (BJ50729-BSD1)										Prepared & Analyzed: 10/15/2015		
2,4,5-T	68.0	20.0	ug/kg wet	160		42.5	40-140		4.32		30	
2,4,5-TP (Silvex)	105	20.0	"	160		65.6	40-140		3.88		30	
2,4-D	88.0	20.0	"	160		55.0	40-140		1.14		30	
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	523		"	500		105	30-150					



Metals by ICP - 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 BJ50631 - EPA 3050B

Blank (BJ50631-BLK1)

Prepared & Analyzed: 10/13/2015

Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.300	"								
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	0.500	"								
Nickel	ND	0.500	"								
Potassium	ND	5.00	"								
Selenium	ND	1.00	"								
Silver	ND	0.500	"								
Sodium	ND	10.0	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.00	"								

Reference (BJ50631-SRM1)

Prepared & Analyzed: 10/13/2015

Aluminum	6960	5.00	mg/kg wet	8100		85.9	39.6-160.5				
Antimony	107	0.500	"	116		92.6	55.7-252.6				
Arsenic	121	1.00	"	122		99.3	70-145.1				
Barium	165	1.00	"	167		98.6	73.1-126.9				
Beryllium	53.1	0.100	"	54.3		97.8	73.1-127.1				
Cadmium	84.7	0.300	"	88.0		96.3	73.3-127.3				
Calcium	5650	5.00	"	5920		95.4	73.6-126.4				
Chromium	100	0.500	"	102		98.0	69.4-130.4				
Cobalt	101	0.500	"	99.4		102	74.3-125.8				
Copper	79.5	0.500	"	78.0		102	73.7-132.1				
Iron	15100	2.00	"	15100		100	37.1-162.9				
Lead	92.8	0.300	"	94.5		98.2	70.5-129				
Magnesium	2810	5.00	"	3020		93.1	65.9-133.8				
Manganese	397	0.500	"	401		98.9	76.1-132.9				
Nickel	62.3	0.500	"	56.3		111	69.8-130				
Potassium	2200	5.00	"	2490		88.4	60.6-139.4				
Selenium	154	1.00	"	157		98.1	67.5-131.8				
Silver	30.2	0.500	"	34.2		88.2	65.5-134.2				
Sodium	235	10.0	"	246		95.7	32-170				
Thallium	109	1.00	"	116		94.4	67.4-132.7				
Vanadium	64.8	1.00	"	67.1		96.6	57.8-192.3				
Zinc	204	1.00	"	207		98.4	70-130.4				



Metals by ICP - 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 BJ50904 - EPA 3015A

Blank (BJ50904-BLK1)

Prepared & Analyzed: 10/19/2015

Aluminum	ND	0.050	mg/L								
Antimony	ND	0.005	"								
Arsenic	ND	0.004	"								
Barium	ND	0.010	"								
Beryllium	ND	0.001	"								
Cadmium	ND	0.003	"								
Calcium	ND	0.050	"								
Chromium	ND	0.005	"								
Cobalt	ND	0.005	"								
Copper	ND	0.003	"								
Iron	ND	0.020	"								
Lead	ND	0.003	"								
Magnesium	ND	0.050	"								
Manganese	ND	0.005	"								
Nickel	ND	0.005	"								
Potassium	ND	0.050	"								
Selenium	ND	0.010	"								
Silver	ND	0.005	"								
Sodium	ND	0.100	"								
Thallium	ND	0.005	"								
Vanadium	ND	0.010	"								
Zinc	ND	0.010	"								

Reference (BJ50904-SRM1)

Prepared & Analyzed: 10/19/2015

Aluminum	1.28		ug/mL	1.28		99.7	82.2-115.7				
Antimony	0.196		"	0.210		93.5	75.2-121				
Arsenic	0.243		"	0.240		101	80.4-118.7				
Barium	0.471		"	0.480		98.1	85-115				
Beryllium	0.290		"	0.300		96.6	85-115				
Cadmium	0.911		"	0.940		96.9	85-115				
Calcium	102		"	107		95.0	86-114				
Chromium	0.400		"	0.400		99.9	85-115				
Cobalt	0.821		"	0.820		100	85-115				
Copper	0.786		"	0.760		103	85-115				
Iron	2.06		"	2.12		97.2	85-115				
Lead	0.695		"	0.700		99.3	85-115				
Magnesium	17.5		"	17.9		97.6	86-114				
Manganese	1.44		"	1.46		98.8	85-115				
Nickel	1.83		"	1.86		98.2	88.6-112				
Potassium	27.5		"	29.1		94.6	84.9-115				
Selenium	0.452		"	0.460		98.4	85-115				
Silver	0.576		"	0.600		95.9	85-115				
Sodium	94.0		"	99.8		94.2	85-115				
Thallium	0.352		"	0.370		95.1	81.4-116.8				
Vanadium	1.11		"	1.12		99.0	85-115				
Zinc	0.553		"	0.560		98.8	85-115				



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
Batch BJ50742 - EPA 7473 soil											
Blank (BJ50742-BLK1)										Prepared & Analyzed: 10/15/2015	
Mercury	ND	0.0300	mg/kg wet								
Reference (BJ50742-SRM1)										Prepared & Analyzed: 10/15/2015	
Mercury	4.6690		mg/kg	5.76		81.1	71.2-129				
Batch BJ50743 - EPA 7473 soil											
Blank (BJ50743-BLK1)										Prepared & Analyzed: 10/15/2015	
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BJ50743-DUP1)										Prepared & Analyzed: 10/15/2015	
	*Source sample: 15J0461-06 (SB09_17-19)										
Mercury	ND	0.0310	mg/kg dry		ND						35
Matrix Spike (BJ50743-MS1)										Prepared & Analyzed: 10/15/2015	
	*Source sample: 15J0461-06 (SB09_17-19)										
Mercury	0.436		mg/kg	0.500	0.00181	86.9	75-125				
Reference (BJ50743-SRM1)										Prepared: 10/15/2015 Analyzed: 10/19/2015	
Mercury	4.9924		mg/kg	5.76		86.7	71.2-129				
Batch BJ50932 - EPA SW846-7470											
Blank (BJ50932-BLK1)										Prepared & Analyzed: 10/19/2015	
Mercury	ND	0.0002	mg/L								
LCS (BJ50932-BS1)										Prepared & Analyzed: 10/19/2015	
Mercury	0.002142	0.0002	mg/L	0.00200		107	80-120				



Miscellaneous Physical Parameters - 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 BJ50572 - Analysis Preparation

Duplicate (BJ50572-DUP1)	*Source sample: 15J0461-10 (SB04_16-18)						Prepared & Analyzed: 10/12/2015				
ORP (Oxidation-Reduction Potential) (Ag/AgCl)	460	-200	mV		470				1.07	30	

Batch BJ50619 - % Solids Prep

Duplicate (BJ50619-DUP1)	*Source sample: 15J0461-10 (SB04_16-18)						Prepared: 10/13/2015 Analyzed: 10/14/2015				
% Solids	93.6	0.100	%		93.3				0.304	20	

Batch BJ50653 - Analysis Preparation

Duplicate (BJ50653-DUP1)	*Source sample: 15J0461-12 (SOFB01_101215)						Prepared & Analyzed: 10/12/2015				
ORP (Oxidation-Reduction Potential) (Ag/AgCl)	480	1.0	mV		490				0.412	25	



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50575 - Analysis Preparation											
Duplicate (BJ50575-DUP1)	*Source sample: 15J0461-10 (SB04_16-18)						Prepared & Analyzed: 10/12/2015				
pH	8.71	0.500	pH units		8.74				0.344	10	
Batch BJ50607 - Analysis Preparation Soil											
Blank (BJ50607-BLK1)							Prepared & Analyzed: 10/13/2015				
Cyanide, total	ND	0.500	mg/kg wet								
Reference (BJ50607-SRM1)							Prepared & Analyzed: 10/13/2015				
Cyanide, total	62.5		ug/mL	59.3		105	38.4-202				
Batch BJ50648 - Analysis Preparation											
Blank (BJ50648-BLK1)							Prepared & Analyzed: 10/14/2015				
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BJ50648-BS1)							Prepared & Analyzed: 10/14/2015				
Chromium, Hexavalent	0.401	0.0100	mg/L	0.500		80.2	80-120				
Duplicate (BJ50648-DUP1)	*Source sample: 15J0461-12 (SOFB01_101215)						Prepared & Analyzed: 10/14/2015				
Chromium, Hexavalent	ND	0.0100	mg/L		ND					20	
Matrix Spike (BJ50648-MS1)	*Source sample: 15J0461-12 (SOFB01_101215)						Prepared & Analyzed: 10/14/2015				
Chromium, Hexavalent	0.463	0.0100	mg/L	0.500	ND	92.6	75-125				
Batch BJ50654 - Analysis Preparation											
Duplicate (BJ50654-DUP1)	*Source sample: 15J0461-12 (SOFB01_101215)						Prepared & Analyzed: 10/12/2015				
pH	5.43	0.500	pH units		5.44				0.184	10	



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50672 - Analysis Preparation											
Blank (BJ50672-BLK1)										Prepared & Analyzed: 10/14/2015	
Cyanide, total	ND	0.0100	mg/L								
LCS (BJ50672-BS1)										Prepared & Analyzed: 10/14/2015	
Cyanide, total	0.162	0.0100	mg/L	0.200		81.0	76.2-107				
Batch BJ50676 - EPA SW846-3060											
Blank (BJ50676-BLK1)										Prepared & Analyzed: 10/14/2015	
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Reference (BJ50676-SRM1)										Prepared & Analyzed: 10/14/2015	
Chromium, Hexavalent	49.2		mg/L	97.4		50.5	26.6-178				
Batch BJ50732 - EPA SW846-3060											
Blank (BJ50732-BLK1)										Prepared: 10/15/2015 Analyzed: 10/16/2015	
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BJ50732-DUP1)										*Source sample: 15J0461-10 (SB04_16-18) Prepared: 10/15/2015 Analyzed: 10/16/2015	
Chromium, Hexavalent	ND	0.536	mg/kg dry		ND						35
Matrix Spike (BJ50732-MS1)										*Source sample: 15J0461-10 (SB04_16-18) Prepared: 10/15/2015 Analyzed: 10/16/2015	
Chromium, Hexavalent	11.7	0.536	mg/kg dry	21.4	ND	54.8	75-125	Low Bias			
Reference (BJ50732-SRM1)										Prepared: 10/15/2015 Analyzed: 10/16/2015	
Chromium, Hexavalent	68.1		mg/L	97.4		69.9	26.6-178				



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50744 - Analysis Preparation Soil											
Blank (BJ50744-BLK1)										Prepared & Analyzed: 10/15/2015	
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BJ50744-DUP1)										*Source sample: 15J0461-10 (SB04_16-18) Prepared & Analyzed: 10/15/2015	
Cyanide, total	ND	0.536	mg/kg dry		ND						15
Matrix Spike (BJ50744-MS1)										*Source sample: 15J0461-10 (SB04_16-18) Prepared & Analyzed: 10/15/2015	
Cyanide, total	8.68	0.536	mg/kg dry	10.7	ND	81.0	79.6-107				
Reference (BJ50744-SRM1)										Prepared & Analyzed: 10/15/2015	
Cyanide, total	65.5		ug/mL	59.3		110	38.4-202				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
15J0461-01	SB01_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0461-02	SB01_18-20	40mL Vial with Stir Bar-Cool 4° C
15J0461-03	SB05_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0461-04	SB05_21-23	40mL Vial with Stir Bar-Cool 4° C
15J0461-05	SB09_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0461-06	SB09_17-19	40mL Vial with Stir Bar-Cool 4° C
15J0461-07	SB08_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0461-08	SB08_16-18	40mL Vial with Stir Bar-Cool 4° C
15J0461-09	SB04_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0461-10	SB04_16-18	40mL Vial with Stir Bar-Cool 4° C
15J0461-11	SOTB_101215	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15J0461-12	SOFB01_101215	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

M-ACCB	Analyte in CCB. Run is bracketed by acceptable CCBs.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
GC-Surr	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the alternate surrogate.
HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
IS-06	Internal standard perylene-d12 did not meet acceptance criteria. The sample was reanalyzed to confirm matrix interference. Compounds affected are: Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
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.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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.
Rep-04	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-08	The recovery of this surrogate was outside of QC limits.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



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. 15J046

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <u>Lagan</u>		Company: <u>SAME</u>		Company: <u>SAME</u>		<u>170370001</u>		RUSH - Same Day <input type="checkbox"/>		Summary Report _____	
Address: <u>360 W 31st St.</u>		Address: _____		Address: _____		Purchase Order No. _____		RUSH - Next Day <input type="checkbox"/>		Summary w/ QA Summary _____	
NY, NY		_____		_____		_____		RUSH - Two Day <input type="checkbox"/>		CT RCP Package _____	
Phone No. <u>212-479-5578</u>		Phone No. _____		Phone No. _____		_____		RUSH - Three Day <input type="checkbox"/>		CTRCP DQA/DUE Pkg _____	
Contact Person: <u>R. Farnham</u>		Attention: _____		Attention: _____		_____		RUSH - Four Day <input type="checkbox"/>		NY ASP A Package <input checked="" type="checkbox"/>	
E-Mail Address: <u>pfarnham@lag.com</u>		E-Mail Address: _____		E-Mail Address: _____		Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>		Standard (5-7 Days) <input checked="" type="checkbox"/>		NY ASP B Package _____	
_____		_____		_____		_____		_____		NJDEP Red. Deliv. _____	

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.

[Signature]
Samples Collected/Authorized By (Signature)

Rebecca Tisherman
Name (printed)

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full TICs	8270 or 625 STARS list	8082PCB	RCRA8	TPH GRO	Pri. Poll.	Corrosivity
624 Site Spec.	BN Only	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list Nassau Co.	Acids Only	8151Herb	TAL	CT ETPH	TAL MetCN	Ignitability
BTEX Suffolk Co.	PAH list	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE Ketones	TAGM list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list 524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No. Detects/Furns	BTU/lb.
Arom. only 502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog. only NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App. IX list SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list	SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Electronic Data Deliverables (EDD)

Simple Excel _____

NYSDEC EQuIS _____

EQuIS (std) _____

EZ-EDD (EQuIS) _____

NJDEP SRP HazSite EDD _____

GIS/KEY (std) _____

Other PDF/Excel

York Regulatory Comparison Excel Spreadsheet

Compare to the following Regs. (please fill in):

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
S1301_0-2	10/12/15 8:15	S	TCL/ALVOC, SVOC, Pest, herb, PCB, Metals, Cyanide, Trivalent/Hex Chrom	2-8oz, Terraces
S1301_18-20	8:45			
S1305_0-2	10:10			
S1305_21-23	11:00			
S1309_0-2	12:00			
S1309_17-19	12:15			
S1308_0-2	12:30			
S1308_16-18	13:05			
S1304_0-2	13:15			
S1304_16-18	13:30			

Comments _____

Preservation: 4°C _____ Frozen _____ HCl _____ MeOH _____ HNO₃ _____ H₂SO₄ _____ NaOH _____

Check those Applicable: ZnAc _____ Ascorbic Acid _____ Other _____

Special Instructions: HW

Field Filtered Lab to Filter

Samples Relinquished By: [Signature] Date/Time: 10/12/15

Samples Relinquished By: _____ Date/Time: _____

Samples Received By: [Signature] Date/Time: 10/12/15 3:20

Samples Received in LAB by: [Signature] Date/Time: 10/12/15 18:27

Temperature on Receipt: 4.7 °C

Page 185 of 186



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. 15J046

YOUR Information	Report To:	Invoice To:	YOUR Project ID	Turn-Around Time	Report Type
Company: <u>Lagan</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	<u>17092001</u>	RUSH - Same Day <input type="checkbox"/>	Summary Report <input type="checkbox"/>
Address: <u>60 W 91st St</u> <u>NY NJ</u>	Address: _____	Address: _____		RUSH - Next Day <input type="checkbox"/>	Summary w/ QA Summary <input type="checkbox"/>
Phone No. <u>212-474-5578</u>	Phone No. _____	Phone No. _____	Purchase Order No.	RUSH - Two Day <input type="checkbox"/>	CT RCP Package <input type="checkbox"/>
Contact Person: <u>P. Farnham</u>	Attention: <u>Gery Nichols</u>	Attention: _____	Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>	RUSH - Three Day <input type="checkbox"/>	CTRCP DQA/DUE Pkg <input type="checkbox"/>
E-Mail Address: <u>pfarnham@lagan.com</u>	E-Mail Address: <u>gnichols@lagan.com</u>	E-Mail Address: _____		Standard(5-7 Days) <input checked="" type="checkbox"/>	RUSH - Four Day <input type="checkbox"/>
					NY ASP B Package <input type="checkbox"/>
					NJDEP Red. Deliv. <input type="checkbox"/>

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.

[Signature]
Samples Collected/Authorized By (Signature)
Rebecca Trhena
Name (printed)

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624 Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list 524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded Red Dioxin/Furans	BTU/lb.
Arom. only 502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog. only NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App. IX list SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDECSewer	Asbestos
8021B list	SPLP or TCLP	608 PCB	Helium	TAGM		Silica

Simple Excel

NYSDEC EQuIS

EQuIS (std)

EZ-EDD (EQuIS)

NJDEP SRP HazSite EDD

GIS/KEY (std)

Other PDF / Excel

York Regulatory Comparison

Excel Spreadsheet

Compare to the following Regs. (please fill in):

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
<u>SUTB001 - 10/12/15</u>	<u>10/12/15</u>	<u>S</u>	<u>VOCS</u>	
<u>SOFB001 - 10/12/15</u>	<u>10/12/15 14:00</u>	<u>S</u>	<u>TCL/TCL VOC, SVOC, Pest, herb, PCB, Metals, Cyanide, Tri/Hex Chloro</u>	

Comments 	Preservation Check those Applicable 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other <input type="checkbox"/>	Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	Temperature on Receipt <u>4.7 °C</u>	
	Samples Relinquished By <u>[Signature]</u> Date/Time <u>10/12/15</u>	Samples Received By <u>[Signature]</u> Date/Time <u>10/12/15 3:20</u>		
	Samples Relinquished By _____ Date/Time _____	Samples Received in LAB by <u>TC [Signature]</u> Date/Time <u>10/12/15 1827</u>		



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Gerald Nicholls

Report Date: 10/21/2015

Client Project ID: 170370001

York Project (SDG) No.: 15J0508

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/21/2015
Client Project ID: 170370001
York Project (SDG) No.: 15J0508

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

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 October 13, 2015 and listed below. The project was identified as your project: **170370001**.

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>
15J0508-01	SB07_0-2	Soil	10/13/2015	10/13/2015
15J0508-02	SB07_17-19	Soil	10/13/2015	10/13/2015
15J0508-03	SB03_0-2	Soil	10/13/2015	10/13/2015
15J0508-04	SB03_16-17	Soil	10/13/2015	10/13/2015
15J0508-05	SB06_0-2	Soil	10/13/2015	10/13/2015
15J0508-06	SB06_17-19	Soil	10/13/2015	10/13/2015
15J0508-07	SB10_0-2	Soil	10/13/2015	10/13/2015
15J0508-08	SB10_12-14	Soil	10/13/2015	10/13/2015
15J0508-09	SB10_17-19	Soil	10/13/2015	10/13/2015
15J0508-10	DUP01_101315	Soil	10/13/2015	10/13/2015
15J0508-11	SB02_0-2	Soil	10/13/2015	10/13/2015
15J0508-12	SB02_18-20	Soil	10/13/2015	10/13/2015
15J0508-13	SOTB02_101315	Water	10/13/2015	10/13/2015

General Notes for York Project (SDG) No.: 15J0508

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: 10/21/2015





Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 7:45 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	47	93	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
78-93-3	2-Butanone	ND	SCAL-E	ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 7:45 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	11	CCV-E	ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
107-02-8	Acrolein	ND		ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
71-43-2	Benzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 7:45 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 02:47	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 02:47	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
100-42-5	Styrene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
108-88-3	Toluene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 02:47	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.0	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 02:47	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	77-125								
2037-26-5	Surrogate: Toluene-d8	102 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	90.7 %	76-130								

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 7:45 am	<u>Date Received</u> 10/13/2015
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Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	136	272	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 22:05	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 22:05	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 22:05	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	136	272	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	136	272	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	136	272	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	136	272	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 7:45 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	136	272	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	136	272	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	136	272	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
83-32-9	Acenaphthene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
98-86-2	Acetophenone	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
62-53-3	Aniline	ND		ug/kg dry	273	546	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
120-12-7	Anthracene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
1912-24-9	Atrazine	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
92-87-5	Benzidine	ND		ug/kg dry	273	546	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/18/2015 22:05	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
65-85-0	Benzoic acid	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 7:45 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
105-60-2	Caprolactam	ND		ug/kg dry	136	272	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
86-74-8	Carbazole	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
218-01-9	Chrysene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
206-44-0	Fluoranthene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
86-73-7	Fluorene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
78-59-1	Isophorone	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
91-20-3	Naphthalene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 7:45 am	10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:05	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
85-01-8	Phenanthrene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
108-95-2	Phenol	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
129-00-0	Pyrene	ND		ug/kg dry	68.3	136	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:05	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	49.0 %			10-95						
4165-62-2	Surrogate: Phenol-d5	50.9 %			10-107						
4165-60-0	Surrogate: Nitrobenzene-d5	45.5 %			10-95						
321-60-8	Surrogate: 2-Fluorobiphenyl	47.8 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	39.3 %			10-103						
1718-51-0	Surrogate: Terphenyl-d14	42.0 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	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 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.19	7.19	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 7:45 am	10/13/2015

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
72-20-8	Endrin	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 03:01	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.99	8.99	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:01	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	91.0	91.0	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 03:01	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	84.4 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	87.9 %	30-140								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 01:32	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 01:32	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 01:32	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 01:32	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 01:32	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 01:32	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 01:32	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 01:32	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	104 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	88.9 %	30-140								



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 7:45 am	10/13/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.8	21.8	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:09	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.8	21.8	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:09	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.8	21.8	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:09	AMC
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 75.0 %		30-150								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	6830		mg/kg dry	5.45	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-38-2	Arsenic	2.36		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-39-3	Barium	46.2		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.109	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.327	0.327	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-70-2	Calcium	1190		mg/kg dry	0.545	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-47-3	Chromium	17.9		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-48-4	Cobalt	6.19		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-50-8	Copper	15.0		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7439-89-6	Iron	11800		mg/kg dry	2.18	2.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7439-92-1	Lead	21.7		mg/kg dry	0.327	0.327	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7439-95-4	Magnesium	2320		mg/kg dry	5.45	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7439-96-5	Manganese	317		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-02-0	Nickel	15.9		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 17:58	ALD



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 7:45 am	<u>Date Received</u> 10/13/2015
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	1070		mg/kg dry	5.45	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-22-4	Silver	ND		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-23-5	Sodium	164		mg/kg dry	10.9	10.9	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-62-2	Vanadium	17.4		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD
7440-66-6	Zinc	23.8		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 17:58	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0327	0.0327	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2015 08:17	10/16/2015 16:08	ALD

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	440		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/13/2015 21:32	10/13/2015 23:13	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.8		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/14/2015 13:23	10/14/2015 16:37	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.381	0.545	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/17/2015 12:16	10/17/2015 16:33	KK



Sample Information

Client Sample ID: SB07_0-2

York Sample ID: 15J0508-01

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 7:45 am	<u>Date Received</u> 10/13/2015
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Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	17.9		mg/kg	0.250	0.500	1	Calculation Certifications:	10/20/2015 12:57	10/20/2015 14:39	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.545	0.545	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/19/2015 08:22	10/19/2015 15:52	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	8.55	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/13/2015 21:35	10/13/2015 23:14	KK

Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:00 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:00 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	50	100	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
78-93-3	2-Butanone	ND	SCAL-E	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
67-64-1	Acetone	8.4	CCV-E, J	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
107-02-8	Acrolein	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-25-2	Bromoform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:00 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
67-66-3	Chloroform	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-09-2	Methylene chloride	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 03:17	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 03:17	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 8:00 am

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:17	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:17	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	77-125								
2037-26-5	Surrogate: Toluene-d8	100 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	89.6 %	76-130								

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 22:36	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 22:36	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 22:36	KH



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:00 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:00 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
98-86-2	Acetophenone	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
62-53-3	Aniline	ND		ug/kg dry	257	514	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
120-12-7	Anthracene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
1912-24-9	Atrazine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
92-87-5	Benzidine	ND		ug/kg dry	257	514	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/18/2015 22:36	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
65-85-0	Benzoic acid	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
105-60-2	Caprolactam	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
86-74-8	Carbazole	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
218-01-9	Chrysene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:00 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
132-64-9	Dibenzofuran	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
206-44-0	Fluoranthene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
86-73-7	Fluorene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
78-59-1	Isophorone	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
91-20-3	Naphthalene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 22:36	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
85-01-8	Phenanthrene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
108-95-2	Phenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
129-00-0	Pyrene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 22:36	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	31.6 %	10-95								
4165-62-2	Surrogate: Phenol-d5	35.5 %	10-107								



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:00 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	Surrogate: Nitrobenzene-d5	32.4 %			10-95						
321-60-8	Surrogate: 2-Fluorobiphenyl	34.0 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	26.9 %			10-103						
1718-51-0	Surrogate: Terphenyl-d14	38.8 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	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 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	6.77	6.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
72-20-8	Endrin	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 03:16	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 8:00 am

10/13/2015

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	8.46	8.46	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:16	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	85.6	85.6	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 03:16	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	80.3 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	88.6 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:01	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:01	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:01	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:01	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:01	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:01	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:01	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 02:01	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	113 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	97.6 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	20.5	20.5	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:25	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	20.5	20.5	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:25	AMC
94-75-7	2,4-D	ND		ug/kg dry	20.5	20.5	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:25	AMC
Surrogate Recoveries		Result			Acceptance Range						



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 8:00 am	10/13/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 100 %				30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	2520		mg/kg dry	5.13	5.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-38-2	Arsenic	1.04		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-39-3	Barium	21.0		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.103	0.103	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.308	0.308	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-70-2	Calcium	933		mg/kg dry	0.513	5.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-47-3	Chromium	10.3		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-48-4	Cobalt	5.00		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-50-8	Copper	12.4		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7439-89-6	Iron	6430		mg/kg dry	2.05	2.05	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7439-92-1	Lead	2.52		mg/kg dry	0.308	0.308	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7439-95-4	Magnesium	1750		mg/kg dry	5.13	5.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7439-96-5	Manganese	183		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-02-0	Nickel	46.5		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-09-7	Potassium	576		mg/kg dry	5.13	5.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-22-4	Silver	ND		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-23-5	Sodium	164		mg/kg dry	10.3	10.3	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:00 am	<u>Date Received</u> 10/13/2015
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-62-2	Vanadium	8.22		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD
7440-66-6	Zinc	23.9		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:03	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0308	0.0308	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2015 08:17	10/16/2015 17:38	ALD

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	450		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/13/2015 21:32	10/13/2015 23:13	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	97.5		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/14/2015 13:23	10/14/2015 16:37	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.359	0.513	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/17/2015 12:16	10/17/2015 16:33	KK

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	10.3		mg/kg	0.250	0.500	1	Calculation Certifications:	10/20/2015 12:57	10/20/2015 14:39	SC

Cyanide, Total

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB07_17-19

York Sample ID: 15J0508-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 15J0508, 170370001, Soil, October 13, 2015 8:00 am, 10/13/2015

Sample Prepared by Method: Analysis Preparation Soil

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 57-12-5, Cyanide, total, ND, mg/kg dry, 0.513, 0.513, 1, EPA 9014/9010C, 10/19/2015 08:22, 10/19/2015 15:52, AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: pH, 7.86, HT-pH, pH units, 0.500, 1, EPA 9045D, 10/13/2015 21:35, 10/13/2015 23:14, KK

Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 15J0508, 170370001, Soil, October 13, 2015 8:15 am, 10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, LOD/MDL, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Multiple rows for various organic compounds like 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, etc.



Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 8:15 am

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	49	98	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
78-93-3	2-Butanone	ND	SCAL-E	ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
67-64-1	Acetone	7.2	CCV-E, J	ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
107-02-8	Acrolein	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
71-43-2	Benzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
75-25-2	Bromoform	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
67-66-3	Chloroform	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK



Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:15 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 03:47	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 03:47	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
100-42-5	Styrene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK



Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 8:15 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 03:47	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.5	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.4	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 03:47	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.0 %			77-125						
2037-26-5	Surrogate: Toluene-d8	100 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	92.0 %			76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	143	286	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 23:09	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 23:09	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 23:09	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	143	286	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH



Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:15 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	143	286	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	143	286	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	143	286	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	143	286	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	143	286	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	143	286	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
83-32-9	Acenaphthene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
98-86-2	Acetophenone	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
62-53-3	Aniline	ND		ug/kg dry	287	573	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH



Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:15 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	193		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
1912-24-9	Atrazine	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
92-87-5	Benzidine	ND		ug/kg dry	287	573	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/18/2015 23:09	KH
56-55-3	Benzo(a)anthracene	1010		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
50-32-8	Benzo(a)pyrene	616		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
205-99-2	Benzo(b)fluoranthene	793		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
191-24-2	Benzo(g,h,i)perylene	375		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
207-08-9	Benzo(k)fluoranthene	650		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
65-85-0	Benzoic acid	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
117-81-7	Bis(2-ethylhexyl)phthalate	95.0	J	ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
105-60-2	Caprolactam	ND		ug/kg dry	143	286	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
86-74-8	Carbazole	113	J	ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
218-01-9	Chrysene	1020		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
53-70-3	Dibenzo(a,h)anthracene	256		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH



Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 8:15 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
117-84-0	Di-n-octyl phthalate	119	J	ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
206-44-0	Fluoranthene	1690		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
86-73-7	Fluorene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
193-39-5	Indeno(1,2,3-cd)pyrene	403		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
78-59-1	Isophorone	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
91-20-3	Naphthalene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:09	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
85-01-8	Phenanthrene	870		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
108-95-2	Phenol	ND		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH
129-00-0	Pyrene	1440		ug/kg dry	71.7	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:09	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: 2-Fluorophenol	42.9 %	10-95
4165-62-2	Surrogate: Phenol-d5	47.9 %	10-107
4165-60-0	Surrogate: Nitrobenzene-d5	44.9 %	10-95
321-60-8	Surrogate: 2-Fluorobiphenyl	50.2 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	28.5 %	10-103
1718-51-0	Surrogate: Terphenyl-d14	48.1 %	19-99



Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:15 am	<u>Date Received</u> 10/13/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
50-29-3	4,4'-DDT	5.20		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.55	7.55	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
72-20-8	Endrin	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 03:31	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.89	1.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	9.44	9.44	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:31	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	95.5	95.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 03:31	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	Surrogate: Tetrachloro-m-xylene	60.1 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	85.4 %	30-140



Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 8:15 am	10/13/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:31	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:31	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:31	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:31	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:31	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:31	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 02:31	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	0.0191	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 02:31	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	62.7 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	68.6 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	22.9	22.9	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:41	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.9	22.9	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:41	AMC
94-75-7	2,4-D	ND		ug/kg dry	22.9	22.9	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:41	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	75.8 %			30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7620		mg/kg dry	5.72	5.72	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.572	0.572	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-38-2	Arsenic	8.36		mg/kg dry	1.14	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:07	ALD



Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 8:15 am

10/13/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	967		mg/kg dry	1.14	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.114	0.114	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-43-9	Cadmium	0.990		mg/kg dry	0.343	0.343	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-70-2	Calcium	27600		mg/kg dry	0.572	5.72	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-47-3	Chromium	28.5		mg/kg dry	0.572	0.572	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-48-4	Cobalt	7.96		mg/kg dry	0.572	0.572	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-50-8	Copper	30.4		mg/kg dry	0.572	0.572	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7439-89-6	Iron	15000		mg/kg dry	2.29	2.29	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7439-92-1	Lead	902		mg/kg dry	0.343	0.343	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7439-95-4	Magnesium	3450		mg/kg dry	5.72	5.72	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7439-96-5	Manganese	275		mg/kg dry	0.572	0.572	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-02-0	Nickel	21.4		mg/kg dry	0.572	0.572	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-09-7	Potassium	1930		mg/kg dry	5.72	5.72	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7782-49-2	Selenium	1.27		mg/kg dry	1.14	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-22-4	Silver	ND		mg/kg dry	0.572	0.572	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-23-5	Sodium	285		mg/kg dry	11.4	11.4	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.14	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-62-2	Vanadium	32.4		mg/kg dry	1.14	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD
7440-66-6	Zinc	543		mg/kg dry	1.14	1.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:07	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 8:15 am

10/13/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.585		mg/kg dry	0.0343	0.0343	1	EPA 7473	10/16/2015 08:17	10/16/2015 17:47	ALD
Certifications:									CTDOH,NJDEP,NELAC-NY10854,PADEP		

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	400		mV	-200	-200	1	ASTM 1498-08 M	10/13/2015 21:32	10/13/2015 23:13	KK
Certifications:											

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.4		%	0.100	0.100	1	SM 2540G	10/14/2015 13:23	10/14/2015 16:37	CLS
Certifications:									CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.400	0.572	1	EPA 7196A	10/17/2015 12:16	10/17/2015 16:33	KK
Certifications:									NJDEP,CTDOH,NELAC-NY10854		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	28.5		mg/kg	0.250	0.500	1	Calculation	10/20/2015 12:57	10/20/2015 14:39	SC
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.572	0.572	1	EPA 9014/9010C	10/19/2015 08:22	10/19/2015 15:52	AD
Certifications:									NELAC-NY10854,CTDOH,NJDEP		

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB03_0-2

York Sample ID: 15J0508-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 8:15 am	10/13/2015

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
pH		9.34	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/13/2015 21:35	10/13/2015 23:14	KK

Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 8:30 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK



Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:30 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	83	170	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
78-93-3	2-Butanone	5.0	SCAL- E, J	ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
591-78-6	2-Hexanone	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
67-64-1	Acetone	35	CCV-E	ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
107-02-8	Acrolein	ND		ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
71-43-2	Benzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-25-2	Bromoform	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
74-83-9	Bromomethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-00-3	Chloroethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
67-66-3	Chloroform	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
74-87-3	Chloromethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK



Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:30 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
110-82-7	Cyclohexane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
74-95-3	Dibromomethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
79-20-9	Methyl acetate	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-09-2	Methylene chloride	10	J	ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
95-47-6	o-Xylene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 04:17	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 04:17	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
100-42-5	Styrene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	8.3	17	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
108-88-3	Toluene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:17	BK



Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 8:30 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	4.1	8.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	12	25	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:17	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: Toluene-d8	106 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	98.4 %			76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	131	262	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 02:52	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 02:52	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 02:52	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	131	262	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	131	262	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH



Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:30 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	131	262	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	131	262	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	131	262	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	131	262	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	131	262	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
83-32-9	Acenaphthene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
98-86-2	Acetophenone	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
62-53-3	Aniline	ND		ug/kg dry	263	526	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
120-12-7	Anthracene	92.4	J	ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
1912-24-9	Atrazine	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH



Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:30 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
92-87-5	Benzidine	ND		ug/kg dry	263	526	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/19/2015 02:52	KH
56-55-3	Benzo(a)anthracene	198		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
50-32-8	Benzo(a)pyrene	112	J	ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
205-99-2	Benzo(b)fluoranthene	120	J	ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
207-08-9	Benzo(k)fluoranthene	127	J	ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
65-85-0	Benzoic acid	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
105-60-2	Caprolactam	ND		ug/kg dry	131	262	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
86-74-8	Carbazole	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
218-01-9	Chrysene	211		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH



Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:30 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	403		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
86-73-7	Fluorene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
78-59-1	Isophorone	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
91-20-3	Naphthalene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:52	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
85-01-8	Phenanthrene	341		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
108-95-2	Phenol	ND		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH
129-00-0	Pyrene	373		ug/kg dry	65.8	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:52	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: 2-Fluorophenol	38.7 %	10-95
4165-62-2	Surrogate: Phenol-d5	41.8 %	10-107
4165-60-0	Surrogate: Nitrobenzene-d5	37.2 %	10-95
321-60-8	Surrogate: 2-Fluorobiphenyl	42.7 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	34.1 %	10-103
1718-51-0	Surrogate: Terphenyl-d14	48.5 %	19-99

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:30 am	<u>Date Received</u> 10/13/2015
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Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	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 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	6.93	6.93	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
72-20-8	Endrin	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 03:46	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.73	1.73	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.66	8.66	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:46	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	87.7	87.7	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 03:46	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	59.9 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	84.6 %	30-140								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 8:30 am	10/13/2015

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:00	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:00	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:00	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:00	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:00	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:00	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:00	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0175	0.0175	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 03:00	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	75.1 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	72.0 %	30-140								

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.0	21.0	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:57	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.0	21.0	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:57	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.0	21.0	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 20:57	AMC
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	75.6 %	30-150								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5870		mg/kg dry	5.25	5.25	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.525	0.525	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-38-2	Arsenic	2.59		mg/kg dry	1.05	1.05	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:15	ALD



Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 8:30 am	<u>Date Received</u> 10/13/2015
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	351		mg/kg dry	1.05	1.05	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.105	0.105	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-43-9	Cadmium	0.453		mg/kg dry	0.315	0.315	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-70-2	Calcium	12800		mg/kg dry	0.525	5.25	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-47-3	Chromium	21.6		mg/kg dry	0.525	0.525	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-48-4	Cobalt	7.20		mg/kg dry	0.525	0.525	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-50-8	Copper	27.3		mg/kg dry	0.525	0.525	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7439-89-6	Iron	14900		mg/kg dry	2.10	2.10	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7439-92-1	Lead	233		mg/kg dry	0.315	0.315	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7439-95-4	Magnesium	4200		mg/kg dry	5.25	5.25	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7439-96-5	Manganese	288		mg/kg dry	0.525	0.525	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-02-0	Nickel	39.6		mg/kg dry	0.525	0.525	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-09-7	Potassium	1490		mg/kg dry	5.25	5.25	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.05	1.05	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-22-4	Silver	ND		mg/kg dry	0.525	0.525	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-23-5	Sodium	247		mg/kg dry	10.5	10.5	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.05	1.05	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-62-2	Vanadium	19.1		mg/kg dry	1.05	1.05	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD
7440-66-6	Zinc	211		mg/kg dry	1.05	1.05	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:15	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 8:30 am

10/13/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.233		mg/kg dry	0.0315	0.0315	1	EPA 7473	10/16/2015 08:17	10/16/2015 18:00	ALD
Certifications:									CTDOH,NJDEP,NELAC-NY10854,PADEP		

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	400		mV	-200	-200	1	ASTM 1498-08 M	10/13/2015 21:32	10/13/2015 23:13	KK
Certifications:											

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	95.2		%	0.100	0.100	1	SM 2540G	10/14/2015 13:23	10/14/2015 16:37	CLS
Certifications:									CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.368	0.525	1	EPA 7196A	10/17/2015 12:16	10/17/2015 16:33	KK
Certifications:									NJDEP,CTDOH,NELAC-NY10854		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	21.6		mg/kg	0.250	0.500	1	Calculation	10/20/2015 12:57	10/20/2015 14:39	SC
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.525	0.525	1	EPA 9014/9010C	10/19/2015 08:22	10/19/2015 15:52	AD
Certifications:									NELAC-NY10854,CTDOH,NJDEP		

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB03_16-17

York Sample ID: 15J0508-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 8:30 am	10/13/2015

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
pH		10.2	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/13/2015 21:35	10/13/2015 23:14	KK

Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 10:55 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK



Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 10:55 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	61	120	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
78-93-3	2-Butanone	ND	SCAL-E	ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
591-78-6	2-Hexanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
67-64-1	Acetone	10	CCV-E, J	ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
107-02-8	Acrolein	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
71-43-2	Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-25-2	Bromoform	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-00-3	Chloroethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
67-66-3	Chloroform	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
74-87-3	Chloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK



Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 10:55 am

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-82-7	Cyclohexane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
74-95-3	Dibromomethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
79-20-9	Methyl acetate	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-09-2	Methylene chloride	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 04:47	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:45	10/21/2015 04:47	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
100-42-5	Styrene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
108-88-3	Toluene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:45	10/21/2015 04:47	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK



Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 10:55 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.2	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:45	10/21/2015 04:47	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: Toluene-d8	99.8 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	85.0 %			76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 23:40	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 23:40	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/18/2015 23:40	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH



Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 10:55 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
83-32-9	Acenaphthene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
98-86-2	Acetophenone	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
62-53-3	Aniline	ND		ug/kg dry	280	561	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
120-12-7	Anthracene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
1912-24-9	Atrazine	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH



Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 10:55 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND		ug/kg dry	280	561	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/18/2015 23:40	KH
56-55-3	Benzo(a)anthracene	149		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
50-32-8	Benzo(a)pyrene	98.5	J	ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
205-99-2	Benzo(b)fluoranthene	137	J	ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
207-08-9	Benzo(k)fluoranthene	102	J	ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
65-85-0	Benzoic acid	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
105-60-2	Caprolactam	ND		ug/kg dry	140	280	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
86-74-8	Carbazole	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
218-01-9	Chrysene	149		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
206-44-0	Fluoranthene	303		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH



Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 10:55 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
78-59-1	Isophorone	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
91-20-3	Naphthalene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/18/2015 23:40	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
85-01-8	Phenanthrene	184		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
108-95-2	Phenol	ND		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
129-00-0	Pyrene	256		ug/kg dry	70.2	140	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/18/2015 23:40	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	50.8 %	10-95								
4165-62-2	Surrogate: Phenol-d5	56.8 %	10-107								
4165-60-0	Surrogate: Nitrobenzene-d5	50.2 %	10-95								
321-60-8	Surrogate: 2-Fluorobiphenyl	54.8 %	10-97								
118-79-6	Surrogate: 2,4,6-Tribromophenol	42.3 %	10-103								
1718-51-0	Surrogate: Terphenyl-d14	51.0 %	19-99								

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 10:55 am	<u>Date Received</u> 10/13/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.39	7.39	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
72-20-8	Endrin	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 04:01	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.85	1.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	9.24	9.24	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:01	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	93.5	93.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 04:01	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	Surrogate: Tetrachloro-m-xylene	57.1 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	83.2 %	30-140



Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 10:55 am	10/13/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:29	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:29	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:29	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:29	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:29	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:29	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:29	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	0.0187	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 03:29	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	75.6 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	76.3 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	22.4	22.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 21:28	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	22.4	22.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 21:28	AMC
94-75-7	2,4-D	ND		ug/kg dry	22.4	22.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 21:28	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	82.0 %			30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7060		mg/kg dry	5.60	5.60	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-36-0	Antimony	3.96		mg/kg dry	0.560	0.560	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-38-2	Arsenic	6.50		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:20	ALD



Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 10:55 am	<u>Date Received</u> 10/13/2015
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	376		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-43-9	Cadmium	0.662		mg/kg dry	0.336	0.336	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-70-2	Calcium	7120		mg/kg dry	0.560	5.60	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-47-3	Chromium	29.0		mg/kg dry	0.560	0.560	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-48-4	Cobalt	8.71		mg/kg dry	0.560	0.560	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-50-8	Copper	112		mg/kg dry	0.560	0.560	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7439-89-6	Iron	15200		mg/kg dry	2.24	2.24	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7439-92-1	Lead	870		mg/kg dry	0.336	0.336	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7439-95-4	Magnesium	2960		mg/kg dry	5.60	5.60	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7439-96-5	Manganese	372		mg/kg dry	0.560	0.560	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-02-0	Nickel	34.6		mg/kg dry	0.560	0.560	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-09-7	Potassium	1370		mg/kg dry	5.60	5.60	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7782-49-2	Selenium	1.35		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-22-4	Silver	ND		mg/kg dry	0.560	0.560	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-23-5	Sodium	299		mg/kg dry	11.2	11.2	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-62-2	Vanadium	31.1		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD
7440-66-6	Zinc	270		mg/kg dry	1.12	1.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:20	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 10:55 am

10/13/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.237		mg/kg dry	0.0336	0.0336	1	EPA 7473	10/16/2015 08:17	10/16/2015 18:09	ALD
Certifications:									CTDOH,NJDEP,NELAC-NY10854,PADEP		

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	410		mV	-200	-200	1	ASTM 1498-08 M	10/13/2015 21:32	10/13/2015 23:13	KK
Certifications:											

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.3		%	0.100	0.100	1	SM 2540G	10/14/2015 13:26	10/14/2015 16:41	CLS
Certifications:									CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.392	0.560	1	EPA 7196A	10/17/2015 12:16	10/17/2015 16:33	KK
Certifications:									NJDEP,CTDOH,NELAC-NY10854		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	29.0		mg/kg	0.250	0.500	1	Calculation	10/20/2015 12:57	10/20/2015 14:39	SC
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.560	0.560	1	EPA 9014/9010C	10/19/2015 08:22	10/19/2015 15:52	AD
Certifications:									NELAC-NY10854,CTDOH,NJDEP		

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB06_0-2

York Sample ID: 15J0508-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 10:55 am	10/13/2015

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	8.53	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/13/2015 21:35	10/13/2015 23:14	KK

Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 11:10 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK



Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:10 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	54	110	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
78-93-3	2-Butanone	ND	SCAL-E	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
67-64-1	Acetone	13	CCV-E	ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
107-02-8	Acrolein	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-25-2	Bromoform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
67-66-3	Chloroform	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK



Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:10 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-82-7	Cyclohexane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-09-2	Methylene chloride	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 05:16	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 05:16	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
100-42-5	Styrene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:16	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK



Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:10 am

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.2	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:16	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %	77-125								
2037-26-5	Surrogate: Toluene-d8	102 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	90.7 %	76-130								

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 00:13	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 00:13	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 00:13	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH



Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:10 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
83-32-9	Acenaphthene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
98-86-2	Acetophenone	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
62-53-3	Aniline	ND		ug/kg dry	257	514	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
120-12-7	Anthracene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
1912-24-9	Atrazine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH



Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:10 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND		ug/kg dry	257	514	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/19/2015 00:13	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
65-85-0	Benzoic acid	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
105-60-2	Caprolactam	ND		ug/kg dry	128	256	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
86-74-8	Carbazole	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
218-01-9	Chrysene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
206-44-0	Fluoranthene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
86-73-7	Fluorene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH



Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:10 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
78-59-1	Isophorone	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
91-20-3	Naphthalene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:13	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
85-01-8	Phenanthrene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
108-95-2	Phenol	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH
129-00-0	Pyrene	ND		ug/kg dry	64.3	128	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:13	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: 2-Fluorophenol	35.6 %	10-95
4165-62-2	Surrogate: Phenol-d5	37.4 %	10-107
4165-60-0	Surrogate: Nitrobenzene-d5	32.7 %	10-95
321-60-8	Surrogate: 2-Fluorobiphenyl	37.9 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	25.6 %	10-103
1718-51-0	Surrogate: Terphenyl-d14	40.2 %	19-99

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	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 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC



Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:10 am	<u>Date Received</u> 10/13/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-55-9	4,4'-DDE	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	6.77	6.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
72-20-8	Endrin	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 04:16	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.69	1.69	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.46	8.46	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:16	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	85.6	85.6	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 04:16	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	79.2 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	95.3 %	30-140								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 11:10 am	10/13/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:58	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:58	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:58	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:58	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:58	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:58	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 03:58	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0171	0.0171	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 03:58	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	108 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	90.3 %	30-140								

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	20.5	20.5	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 21:44	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	20.5	20.5	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 21:44	AMC
94-75-7	2,4-D	ND		ug/kg dry	20.5	20.5	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 21:44	AMC
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	104 %	30-150								

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	2400		mg/kg dry	5.13	5.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-38-2	Arsenic	ND		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:28	ALD



Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:10 am	<u>Date Received</u> 10/13/2015
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	Barium	16.7		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.103	0.103	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.308	0.308	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-70-2	Calcium	755		mg/kg dry	0.513	5.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-47-3	Chromium	6.41		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-48-4	Cobalt	5.07		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-50-8	Copper	8.87		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7439-89-6	Iron	5300		mg/kg dry	2.05	2.05	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7439-92-1	Lead	3.35		mg/kg dry	0.308	0.308	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7439-95-4	Magnesium	1890		mg/kg dry	5.13	5.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7439-96-5	Manganese	232		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-02-0	Nickel	40.7		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-09-7	Potassium	487		mg/kg dry	5.13	5.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-22-4	Silver	ND		mg/kg dry	0.513	0.513	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-23-5	Sodium	121		mg/kg dry	10.3	10.3	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-62-2	Vanadium	6.30		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD
7440-66-6	Zinc	11.5		mg/kg dry	1.03	1.03	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:28	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:10 am	<u>Date Received</u> 10/13/2015
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Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0308	0.0308	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2015 08:17	10/16/2015 18:18	ALD

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	410		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/13/2015 21:32	10/13/2015 23:13	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	97.5		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/14/2015 13:26	10/14/2015 16:41	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.359	0.513	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/17/2015 12:16	10/17/2015 16:33	KK

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	6.41		mg/kg	0.250	0.500	1	Calculation Certifications:	10/20/2015 12:57	10/20/2015 14:39	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.513	0.513	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/19/2015 08:22	10/19/2015 15:52	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	10.5	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/13/2015 21:35	10/13/2015 23:14	KK



Sample Information

Client Sample ID: SB06_17-19

York Sample ID: 15J0508-06

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 11:10 am	10/13/2015

Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 11:30 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:30 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	46	92	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
67-64-1	Acetone	14	CCV-E	ug/kg dry	4.6	9.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
107-02-8	Acrolein	ND		ug/kg dry	4.6	9.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
71-43-2	Benzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:30 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.6	9.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 05:46	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.6	9.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 05:46	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
100-42-5	Styrene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.6	9.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
108-88-3	Toluene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 05:46	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:30 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.9	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 05:46	BK
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.7 %			77-125						
2037-26-5	Surrogate: Toluene-d8	104 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	91.4 %			76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	132	264	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 00:45	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 00:45	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 00:45	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	132	264	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	132	264	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:30 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	132	264	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	132	264	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	132	264	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	132	264	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	132	264	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
83-32-9	Acenaphthene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
98-86-2	Acetophenone	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
62-53-3	Aniline	ND		ug/kg dry	265	529	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
120-12-7	Anthracene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
1912-24-9	Atrazine	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
92-87-5	Benzidine	ND		ug/kg dry	265	529	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/19/2015 00:45	KH
56-55-3	Benzo(a)anthracene	202		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:30 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-32-8	Benzo(a)pyrene	118	J	ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
205-99-2	Benzo(b)fluoranthene	128	J	ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
191-24-2	Benzo(g,h,i)perylene	80.3	J	ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
207-08-9	Benzo(k)fluoranthene	163		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
65-85-0	Benzoic acid	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
117-81-7	Bis(2-ethylhexyl)phthalate	114	J	ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
105-60-2	Caprolactam	ND		ug/kg dry	132	264	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
86-74-8	Carbazole	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
218-01-9	Chrysene	210		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
206-44-0	Fluoranthene	374		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
86-73-7	Fluorene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:30 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
78-59-1	Isophorone	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
91-20-3	Naphthalene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 00:45	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
85-01-8	Phenanthrene	204		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
108-95-2	Phenol	ND		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
129-00-0	Pyrene	337		ug/kg dry	66.2	132	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 00:45	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	21.0 %	10-95								
4165-62-2	Surrogate: Phenol-d5	35.7 %	10-107								
4165-60-0	Surrogate: Nitrobenzene-d5	30.8 %	10-95								
321-60-8	Surrogate: 2-Fluorobiphenyl	38.9 %	10-97								
118-79-6	Surrogate: 2,4,6-Tribromophenol	14.1 %	10-103								
1718-51-0	Surrogate: Terphenyl-d14	40.9 %	19-99								

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:30 am	<u>Date Received</u> 10/13/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	6.97	6.97	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
72-20-8	Endrin	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 04:31	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.74	1.74	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.71	8.71	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:31	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	88.2	88.2	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 04:31	AMC
	Surrogate Recoveries	Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	55.7 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	88.1 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0176	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:27	AMC



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:30 am

10/13/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0176	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:27	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0176	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:27	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0176	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:27	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0176	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:27	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0176	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:27	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0176	0.0176	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:27	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0176	0.0176	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 04:27	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	88.1 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	84.1 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.1	21.1	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:00	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.1	21.1	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:00	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.1	21.1	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:00	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (E	82.4 %			30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	7360		mg/kg dry	5.28	5.28	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.528	0.528	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-38-2	Arsenic	3.80		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-39-3	Barium	265		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:32	ALD



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:30 am	<u>Date Received</u> 10/13/2015
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND		mg/kg dry	0.106	0.106	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-43-9	Cadmium	0.397		mg/kg dry	0.317	0.317	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-70-2	Calcium	14300		mg/kg dry	0.528	5.28	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-47-3	Chromium	15.0		mg/kg dry	0.528	0.528	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-48-4	Cobalt	6.68		mg/kg dry	0.528	0.528	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-50-8	Copper	33.3		mg/kg dry	0.528	0.528	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7439-89-6	Iron	13100		mg/kg dry	2.11	2.11	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7439-92-1	Lead	1390		mg/kg dry	0.317	0.317	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7439-95-4	Magnesium	2930		mg/kg dry	5.28	5.28	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7439-96-5	Manganese	305		mg/kg dry	0.528	0.528	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-02-0	Nickel	15.9		mg/kg dry	0.528	0.528	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-09-7	Potassium	1840		mg/kg dry	5.28	5.28	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-22-4	Silver	ND		mg/kg dry	0.528	0.528	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-23-5	Sodium	333		mg/kg dry	10.6	10.6	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-62-2	Vanadium	20.2		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD
7440-66-6	Zinc	210		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:32	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.356		mg/kg dry	0.0317	0.0317	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2015 08:17	10/16/2015 18:27	ALD



Sample Information

Client Sample ID: SB10_0-2

York Sample ID: 15J0508-07

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:30 am	<u>Date Received</u> 10/13/2015
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ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* ORP (Oxidation-Reduction Potential) (Ag/AgCl)		400		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/13/2015 21:32	10/13/2015 23:13	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	94.7		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/14/2015 13:26	10/14/2015 16:41	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.370	0.528	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY 10854	10/17/2015 12:16	10/17/2015 16:33	KK

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	15.0		mg/kg	0.250	0.500	1	Calculation Certifications:	10/20/2015 12:57	10/20/2015 14:39	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.528	0.528	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/19/2015 08:22	10/19/2015 15:52	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	10.4	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/13/2015 21:35	10/13/2015 23:14	KK



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 11:45 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
79-00-5	1,1,2-Trichloroethane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
95-63-6	1,2,4-Trimethylbenzene	120	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
106-93-4	1,2-Dibromoethane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
78-87-5	1,2-Dichloropropane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
108-67-8	1,3,5-Trimethylbenzene	63	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
123-91-1	1,4-Dioxane	ND	IS-LO	ug/kg dry	55	110	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
78-93-3	2-Butanone	89	CCV-E	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
591-78-6	2-Hexanone	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
108-10-1	4-Methyl-2-pentanone	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:45 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	200	ICV-E, SCAL- E	ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
107-02-8	Acrolein	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
71-43-2	Benzene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-27-4	Bromodichloromethane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-25-2	Bromoform	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
108-90-7	Chlorobenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
67-66-3	Chloroform	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
124-48-1	Dibromochloromethane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
74-95-3	Dibromomethane	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
100-41-4	Ethyl Benzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
98-82-8	Isopropylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:45 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
108-87-2	Methylcyclohexane	9.9	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-09-2	Methylene chloride	ND		ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
103-65-1	n-Propylbenzene	18	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
95-47-6	o-Xylene	3.5	IS-LO, J	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 10:41	SS
179601-23-1	p- & m- Xylenes	7.8	IS-LO, J	ug/kg dry	5.5	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 10:41	SS
99-87-6	p-Isopropyltoluene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
135-98-8	sec-Butylbenzene	20	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
100-42-5	Styrene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
127-18-4	Tetrachloroethylene	43	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
108-88-3	Toluene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:41	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	IS-LO	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
79-01-6	Trichloroethylene	3.3	IS-LO, J	ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.8	5.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
1330-20-7	Xylenes, Total	11	IS-LO, J	ug/kg dry	8.3	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:41	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	169 %	S-08		77-125						
2037-26-5	Surrogate: Toluene-d8	131 %	S-08		85-120						



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 11:45 am	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	570 %	S-08		76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	341	682	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 03:56	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 03:56	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 03:56	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	341	682	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	341	682	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
91-57-6	2-Methylnaphthalene	1740		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	341	682	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:45 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	341	682	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	341	682	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	341	682	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	341	682	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
83-32-9	Acenaphthene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
98-86-2	Acetophenone	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
62-53-3	Aniline	ND		ug/kg dry	683	1370	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
120-12-7	Anthracene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
1912-24-9	Atrazine	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
92-87-5	Benzidine	ND		ug/kg dry	683	1370	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/19/2015 03:56	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
191-24-2	Benzo(g,h,i)perylene	ND	IS-06	ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:45 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65-85-0	Benzoic acid	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
85-68-7	Benzyl butyl phthalate	297	J	ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
105-60-2	Caprolactam	ND		ug/kg dry	341	682	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
86-74-8	Carbazole	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
218-01-9	Chrysene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
53-70-3	Dibenzo(a,h)anthracene	ND	IS-06	ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
206-44-0	Fluoranthene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
86-73-7	Fluorene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND	IS-06	ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
78-59-1	Isophorone	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:45 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	425		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:56	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
85-01-8	Phenanthrene	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
108-95-2	Phenol	ND		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
129-00-0	Pyrene	578		ug/kg dry	171	341	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:56	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	35.1 %			10-95						
4165-62-2	Surrogate: Phenol-d5	36.4 %			10-107						
4165-60-0	Surrogate: Nitrobenzene-d5	44.3 %			10-95						
321-60-8	Surrogate: 2-Fluorobiphenyl	50.8 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	41.9 %			10-103						
1718-51-0	Surrogate: Terphenyl-d14	37.0 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	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 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.20	7.20	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:45 am	<u>Date Received</u> 10/13/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
72-20-8	Endrin	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 04:46	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.80	1.80	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	9.00	9.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:46	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	91.1	91.1	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 04:46	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	37.8 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	48.0 %	30-140								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:57	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:57	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:57	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:57	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:57	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:57	AMC



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:45 am

10/13/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 04:57	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0182	0.0182	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 04:57	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	66.7 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	73.4 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.8	21.8	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:16	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.8	21.8	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:16	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.8	21.8	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:16	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	58.0 %			30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5410		mg/kg dry	5.45	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-38-2	Arsenic	6.68		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-39-3	Barium	76.0		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.109	0.109	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.327	0.327	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-70-2	Calcium	5240		mg/kg dry	0.545	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-47-3	Chromium	27.9		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-48-4	Cobalt	19.0		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:45 am	<u>Date Received</u> 10/13/2015
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	36.6		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7439-89-6	Iron	44100		mg/kg dry	2.18	2.18	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7439-92-1	Lead	66.1		mg/kg dry	0.327	0.327	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7439-95-4	Magnesium	10500		mg/kg dry	5.45	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7439-96-5	Manganese	411		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-02-0	Nickel	205		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-09-7	Potassium	1050		mg/kg dry	5.45	5.45	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7782-49-2	Selenium	3.22		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-22-4	Silver	ND		mg/kg dry	0.545	0.545	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-23-5	Sodium	380		mg/kg dry	10.9	10.9	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-62-2	Vanadium	25.8		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD
7440-66-6	Zinc	33.0		mg/kg dry	1.09	1.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:40	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.330		mg/kg dry	0.0327	0.0327	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2015 08:17	10/16/2015 18:37	ALD

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	410		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/13/2015 21:32	10/13/2015 23:13	KK

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB10_12-14

York Sample ID: 15J0508-08

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:45 am	<u>Date Received</u> 10/13/2015
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Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	91.7		%	0.100	0.100	1	SM 2540G	10/14/2015 13:26	10/14/2015 16:41	CLS
Certifications: CTDOH											

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.382	0.545	1	EPA 7196A	10/17/2015 12:16	10/17/2015 16:33	KK
Certifications: NJDEP,CTDOH,NELAC-NY10854											

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	27.9		mg/kg	0.250	0.500	1	Calculation	10/20/2015 12:57	10/20/2015 14:39	SC
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.545	0.545	1	EPA 9014/9010C	10/19/2015 08:22	10/19/2015 15:52	AD
Certifications: NELAC-NY10854,CTDOH,NJDEP											

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	9.39	HT-pH	pH units		0.500	1	EPA 9045D	10/13/2015 21:35	10/13/2015 23:14	KK
Certifications: NELAC-NY10854,CTDOH											

Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:55 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C	10/20/2015 16:43	10/21/2015 06:46	BK
Certifications: CTDOH,NELAC-NY10854,NJDEP											



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:55 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	49	98	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
78-93-3	2-Butanone	ND	SCAL-E	ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
67-64-1	Acetone	13	CCV-E	ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:55 am

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
71-43-2	Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-25-2	Bromoform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:55 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 06:46	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 06:46	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
100-42-5	Styrene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.9	9.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
108-88-3	Toluene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 06:46	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.3	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 06:46	BK

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %	77-125
2037-26-5	Surrogate: Toluene-d8	104 %	85-120
460-00-4	Surrogate: p-Bromofluorobenzene	92.6 %	76-130

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 11:55 am	10/13/2015

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	133	266	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 01:16	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 01:16	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 01:16	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	133	266	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	133	266	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	133	266	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	133	266	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:55 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	133	266	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	133	266	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	133	266	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
83-32-9	Acenaphthene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
98-86-2	Acetophenone	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
62-53-3	Aniline	ND		ug/kg dry	267	534	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
120-12-7	Anthracene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
1912-24-9	Atrazine	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
92-87-5	Benzidine	ND		ug/kg dry	267	534	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/19/2015 01:16	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
65-85-0	Benzoic acid	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:55 am

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
105-60-2	Caprolactam	ND		ug/kg dry	133	266	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
86-74-8	Carbazole	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
218-01-9	Chrysene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
206-44-0	Fluoranthene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
86-73-7	Fluorene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
78-59-1	Isophorone	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
91-20-3	Naphthalene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 11:55 am	10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:16	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
85-01-8	Phenanthrene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
108-95-2	Phenol	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
129-00-0	Pyrene	ND		ug/kg dry	66.8	133	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:16	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	37.2 %			10-95						
4165-62-2	Surrogate: Phenol-d5	39.0 %			10-107						
4165-60-0	Surrogate: Nitrobenzene-d5	36.4 %			10-95						
321-60-8	Surrogate: 2-Fluorobiphenyl	37.7 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	29.6 %			10-103						
1718-51-0	Surrogate: Terphenyl-d14	39.8 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.03	7.03	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:55 am	<u>Date Received</u> 10/13/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
72-20-8	Endrin	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 05:01	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.76	1.76	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.79	8.79	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:01	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	89.0	89.0	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 05:01	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	51.2 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	50.4 %	30-140								

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:26	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:26	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:26	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:26	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:26	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:26	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:26	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	0.0178	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 05:26	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	61.7 %	30-140								
2051-24-3	Surrogate: Decachlorobiphenyl	68.6 %	30-140								



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 11:55 am	10/13/2015

Herbicides, Target List

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.3	21.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:32	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.3	21.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:32	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.3	21.3	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:32	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (E 44.8 %				30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3370		mg/kg dry	5.33	5.33	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.533	0.533	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-38-2	Arsenic	1.57		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-39-3	Barium	47.4		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.107	0.107	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.320	0.320	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-70-2	Calcium	3840		mg/kg dry	0.533	5.33	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-47-3	Chromium	14.8		mg/kg dry	0.533	0.533	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-48-4	Cobalt	10.8		mg/kg dry	0.533	0.533	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-50-8	Copper	10.5		mg/kg dry	0.533	0.533	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7439-89-6	Iron	7730		mg/kg dry	2.13	2.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7439-92-1	Lead	26.8		mg/kg dry	0.320	0.320	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7439-95-4	Magnesium	2110		mg/kg dry	5.33	5.33	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7439-96-5	Manganese	475		mg/kg dry	0.533	0.533	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-02-0	Nickel	67.1		mg/kg dry	0.533	0.533	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:58	ALD



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 11:55 am	10/13/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	Potassium	747		mg/kg dry	5.33	5.33	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-22-4	Silver	ND		mg/kg dry	0.533	0.533	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-23-5	Sodium	163		mg/kg dry	10.7	10.7	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-62-2	Vanadium	10.0		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD
7440-66-6	Zinc	18.5		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 18:58	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0320	0.0320	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2015 08:17	10/16/2015 18:46	ALD

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	400		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/13/2015 21:32	10/13/2015 23:13	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.8		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/14/2015 13:26	10/14/2015 16:41	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.373	0.533	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/17/2015 12:16	10/17/2015 16:33	KK



Sample Information

Client Sample ID: SB10_17-19

York Sample ID: 15J0508-09

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:55 am	<u>Date Received</u> 10/13/2015
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Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	14.8		mg/kg	0.250	0.500	1	Calculation Certifications:	10/20/2015 12:57	10/20/2015 14:39	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.533	0.533	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/19/2015 08:22	10/19/2015 15:52	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	10.0	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/13/2015 21:35	10/13/2015 23:14	KK

Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:11 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:11 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	44	88	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
78-93-3	2-Butanone	ND	SCAL-E	ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
67-64-1	Acetone	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
107-02-8	Acrolein	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
71-43-2	Benzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-25-2	Bromoform	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:11 am

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
67-66-3	Chloroform	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 07:16	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 07:16	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 11:11 am

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
108-88-3	Toluene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 07:16	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.6	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 07:16	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %	77-125								
2037-26-5	Surrogate: Toluene-d8	98.1 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	85.4 %	76-130								

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	332	663	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 03:24	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 03:24	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 03:24	KH



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:11 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	332	663	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	332	663	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	332	663	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	332	663	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	332	663	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
59-50-7	4-Chloro-3-methylphenol	215	J	ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	332	663	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	332	663	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:11 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
98-86-2	Acetophenone	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
62-53-3	Aniline	ND		ug/kg dry	665	1330	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
120-12-7	Anthracene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
1912-24-9	Atrazine	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
92-87-5	Benzidine	ND		ug/kg dry	665	1330	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/19/2015 03:24	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
191-24-2	Benzo(g,h,i)perylene	ND	IS-06	ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
65-85-0	Benzoic acid	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
105-60-2	Caprolactam	ND		ug/kg dry	332	663	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
86-74-8	Carbazole	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
218-01-9	Chrysene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
53-70-3	Dibenzo(a,h)anthracene	ND	IS-06	ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:11 am	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
132-64-9	Dibenzofuran	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
206-44-0	Fluoranthene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
86-73-7	Fluorene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND	IS-06	ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
78-59-1	Isophorone	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
91-20-3	Naphthalene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 03:24	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
85-01-8	Phenanthrene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
108-95-2	Phenol	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH
129-00-0	Pyrene	ND		ug/kg dry	166	332	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 03:24	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: 2-Fluorophenol	45.6 %	10-95
4165-62-2	Surrogate: Phenol-d5	45.0 %	10-107



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 11:11 am	10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	Surrogate: Nitrobenzene-d5	45.9 %			10-95						
321-60-8	Surrogate: 2-Fluorobiphenyl	61.6 %			10-97						
118-79-6	Surrogate: 2,4,6-Tribromophenol	49.9 %			10-103						
1718-51-0	Surrogate: Terphenyl-d14	51.2 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.00	7.00	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
72-20-8	Endrin	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 05:16	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.75	1.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:11 am	<u>Date Received</u> 10/13/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	8.75	8.75	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:16	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	88.6	88.6	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 05:16	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	73.8 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	70.7 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:55	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:55	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:55	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0177	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:55	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:55	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:55	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	0.0177	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:55	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	0.0177	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 05:55	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	101 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	92.3 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.2	21.2	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:48	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.2	21.2	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:48	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.2	21.2	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 22:48	AMC
Surrogate Recoveries		Result			Acceptance Range						



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 11:11 am	10/13/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 104 %				30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3360		mg/kg dry	5.31	5.31	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.531	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-38-2	Arsenic	ND		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-39-3	Barium	119		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.106	0.106	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.318	0.318	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-70-2	Calcium	696		mg/kg dry	0.531	5.31	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-47-3	Chromium	13.3		mg/kg dry	0.531	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-48-4	Cobalt	7.86		mg/kg dry	0.531	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-50-8	Copper	9.33		mg/kg dry	0.531	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7439-89-6	Iron	8710		mg/kg dry	2.12	2.12	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7439-92-1	Lead	3.19		mg/kg dry	0.318	0.318	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7439-95-4	Magnesium	1670		mg/kg dry	5.31	5.31	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7439-96-5	Manganese	264		mg/kg dry	0.531	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-02-0	Nickel	60.9		mg/kg dry	0.531	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-09-7	Potassium	846		mg/kg dry	5.31	5.31	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-22-4	Silver	ND		mg/kg dry	0.531	0.531	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-23-5	Sodium	139		mg/kg dry	10.6	10.6	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:11 am	<u>Date Received</u> 10/13/2015
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Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-62-2	Vanadium	9.10		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD
7440-66-6	Zinc	14.8		mg/kg dry	1.06	1.06	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:02	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0318	0.0318	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2015 08:17	10/16/2015 18:55	ALD

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	430		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/13/2015 21:32	10/13/2015 23:13	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	94.2		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/14/2015 13:26	10/14/2015 16:41	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.371	0.531	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/17/2015 12:16	10/17/2015 16:33	KK

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	13.3		mg/kg	0.250	0.500	1	Calculation Certifications:	10/20/2015 12:57	10/20/2015 14:39	SC

Cyanide, Total

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: DUP01_101315

York Sample ID: 15J0508-10

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 11:11 am	<u>Date Received</u> 10/13/2015
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Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.531	0.531	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/19/2015 08:22	10/19/2015 15:52	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	7.36	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/13/2015 21:35	10/13/2015 23:14	KK

Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 12:45 pm	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 12:45 pm	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	47	94	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
67-64-1	Acetone	11	ICV-E, SCAL- E	ug/kg dry	4.7	9.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
107-02-8	Acrolein	ND		ug/kg dry	4.7	9.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
71-43-2	Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-25-2	Bromoform	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 12:45 pm	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
98-82-8	Isopropylbenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.7	9.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
104-51-8	n-Butylbenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
103-65-1	n-Propylbenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 10:07	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.7	9.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 10:07	SS
99-87-6	p-Isopropyltoluene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
135-98-8	sec-Butylbenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
100-42-5	Styrene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
98-06-6	tert-Butylbenzene	ND	IS-LO	ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 12:45 pm	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
108-88-3	Toluene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 10:07	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.1	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 10:07	SS
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %		77-125							
2037-26-5	Surrogate: Toluene-d8	115 %		85-120							
460-00-4	Surrogate: p-Bromofluorobenzene	157 %	S-08	76-130							

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 02:21	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 02:21	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 02:21	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 12:45 pm

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
83-32-9	Acenaphthene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
98-86-2	Acetophenone	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 12:45 pm	<u>Date Received</u> 10/13/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		ug/kg dry	269	537	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
120-12-7	Anthracene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
1912-24-9	Atrazine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
92-87-5	Benzidine	ND		ug/kg dry	269	537	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/19/2015 02:21	KH
56-55-3	Benzo(a)anthracene	115	J	ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
205-99-2	Benzo(b)fluoranthene	108	J	ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
207-08-9	Benzo(k)fluoranthene	92.2	J	ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
65-85-0	Benzoic acid	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
105-60-2	Caprolactam	ND		ug/kg dry	134	268	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
86-74-8	Carbazole	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
218-01-9	Chrysene	121	J	ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 12:45 pm	10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
206-44-0	Fluoranthene	206		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
86-73-7	Fluorene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
78-59-1	Isophorone	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
91-20-3	Naphthalene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 02:21	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
85-01-8	Phenanthrene	113	J	ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
108-95-2	Phenol	ND		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH
129-00-0	Pyrene	187		ug/kg dry	67.2	134	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 02:21	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	Surrogate: 2-Fluorophenol	39.5 %	10-95
4165-62-2	Surrogate: Phenol-d5	42.8 %	10-107
4165-60-0	Surrogate: Nitrobenzene-d5	39.2 %	10-95
321-60-8	Surrogate: 2-Fluorobiphenyl	41.7 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	39.4 %	10-103



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0508	170370001	Soil	October 13, 2015 12:45 pm	10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	Surrogate: Terphenyl-d14	46.9 %			19-99						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
319-84-6	alpha-BHC	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	7.08	7.08	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
72-20-8	Endrin	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 14:22	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.77	1.77	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.85	8.85	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 14:22	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	89.5	89.5	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 14:22	AMC



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 12:45 pm	<u>Date Received</u> 10/13/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	80.3 %			0.0179	0.0179	1	EPA 8082A	10/16/2015 12:52	10/20/2015 06:24	AMC
2051-24-3	Surrogate: Decachlorobiphenyl	82.1 %			0.0179	0.0179	1	EPA 8082A	10/16/2015 12:52	10/20/2015 06:24	AMC

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:24	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:24	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:24	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:24	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:24	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:24	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:24	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0179	0.0179	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 06:24	AMC
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	73.1 %			0.0179	0.0179	1	EPA 8082A	10/16/2015 12:52	10/20/2015 06:24	AMC
2051-24-3	Surrogate: Decachlorobiphenyl	75.4 %			0.0179	0.0179	1	EPA 8082A	10/16/2015 12:52	10/20/2015 06:24	AMC

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	21.4	21.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 23:04	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	21.4	21.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 23:04	AMC
94-75-7	2,4-D	ND		ug/kg dry	21.4	21.4	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 23:04	AMC
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	96.0 %			21.4	21.4	1	EPA 8151A	10/19/2015 04:50	10/19/2015 23:04	AMC

Metals, Target Analyte

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 12:45 pm	10/13/2015

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	5760		mg/kg dry	5.36	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-38-2	Arsenic	5.26		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-39-3	Barium	69.6		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.107	0.107	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.322	0.322	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-70-2	Calcium	14200		mg/kg dry	0.536	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-47-3	Chromium	12.1		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-48-4	Cobalt	4.56		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-50-8	Copper	13.8		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7439-89-6	Iron	8450		mg/kg dry	2.14	2.14	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7439-92-1	Lead	147		mg/kg dry	0.322	0.322	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7439-95-4	Magnesium	2080		mg/kg dry	5.36	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7439-96-5	Manganese	272		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-02-0	Nickel	11.5		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-09-7	Potassium	915		mg/kg dry	5.36	5.36	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-22-4	Silver	ND		mg/kg dry	0.536	0.536	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-23-5	Sodium	251		mg/kg dry	10.7	10.7	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-62-2	Vanadium	15.4		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD
7440-66-6	Zinc	86.5		mg/kg dry	1.07	1.07	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:07	ALD



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 12:45 pm

10/13/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.252		mg/kg dry	0.0322	0.0322	1	EPA 7473	10/16/2015 08:17	10/16/2015 19:05	ALD
Certifications:									CTDOH,NJDEP,NELAC-NY10854,PADEP		

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	410		mV	-200	-200	1	ASTM 1498-08 M	10/13/2015 21:32	10/13/2015 23:13	KK
Certifications:											

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	93.3		%	0.100	0.100	1	SM 2540G	10/14/2015 13:26	10/14/2015 16:41	CLS
Certifications:									CTDOH		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	2.79		mg/kg dry	0.375	0.536	1	EPA 7196A	10/17/2015 12:16	10/17/2015 16:33	KK
Certifications:									NJDEP,CTDOH,NELAC-NY10854		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	12.1		mg/kg	0.250	0.500	1	Calculation	10/20/2015 12:57	10/20/2015 14:39	SC
Certifications:											

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.536	0.536	1	EPA 9014/9010C	10/20/2015 07:55	10/20/2015 14:24	AD
Certifications:									NELAC-NY10854,CTDOH,NJDEP		

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	9.33	HT-pH	pH units		0.500	1	EPA 9045D	10/13/2015 21:35	10/13/2015 23:14	KK
Certifications:									NELAC-NY10854,CTDOH		



Sample Information

Client Sample ID: SB02_0-2

York Sample ID: 15J0508-11

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 12:45 pm	10/13/2015

Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0508	170370001	Soil	October 13, 2015 12:55 pm	10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 12:55 pm	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
123-91-1	1,4-Dioxane	ND		ug/kg dry	47	93	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
67-64-1	Acetone	13	CCV-E	ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
107-02-8	Acrolein	ND		ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
71-43-2	Benzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
110-82-7	Cyclohexane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
74-95-3	Dibromomethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 12:55 pm

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
79-20-9	Methyl acetate	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-09-2	Methylene chloride	ND		ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
95-47-6	o-Xylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 08:15	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854	10/20/2015 16:43	10/21/2015 08:15	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
100-42-5	Styrene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	4.7	9.3	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
108-88-3	Toluene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/20/2015 16:43	10/21/2015 08:15	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

York Project (SDG) No.

Client Project ID

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Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 12:55 pm

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.0	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/20/2015 16:43	10/21/2015 08:15	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %			77-125						
2037-26-5	Surrogate: Toluene-d8	101 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	88.6 %			76-130						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	131	261	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 01:49	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 01:49	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854	10/16/2015 06:53	10/19/2015 01:49	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	131	261	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	131	261	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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15J0508

170370001

Soil

October 13, 2015 12:55 pm

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	131	261	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	131	261	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	131	261	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	131	261	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	131	261	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
83-32-9	Acenaphthene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
98-86-2	Acetophenone	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
62-53-3	Aniline	ND		ug/kg dry	261	523	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
120-12-7	Anthracene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
1912-24-9	Atrazine	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
92-87-5	Benzidine	ND		ug/kg dry	261	523	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854	10/16/2015 06:53	10/19/2015 01:49	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 12:55 pm

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
65-85-0	Benzoic acid	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
105-60-2	Caprolactam	ND		ug/kg dry	131	261	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
86-74-8	Carbazole	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
218-01-9	Chrysene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
206-44-0	Fluoranthene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
86-73-7	Fluorene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 12:55 pm

10/13/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
78-59-1	Isophorone	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
91-20-3	Naphthalene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 06:53	10/19/2015 01:49	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
85-01-8	Phenanthrene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
108-95-2	Phenol	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH
129-00-0	Pyrene	ND		ug/kg dry	65.4	131	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 06:53	10/19/2015 01:49	KH

Surrogate Recoveries

Result

Acceptance Range

367-12-4	Surrogate: 2-Fluorophenol	52.6 %	10-95
4165-62-2	Surrogate: Phenol-d5	54.6 %	10-107
4165-60-0	Surrogate: Nitrobenzene-d5	50.6 %	10-95
321-60-8	Surrogate: 2-Fluorobiphenyl	52.9 %	10-97
118-79-6	Surrogate: 2,4,6-Tribromophenol	42.2 %	10-103
1718-51-0	Surrogate: Terphenyl-d14	51.2 %	19-99

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
72-55-9	4,4'-DDE	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
50-29-3	4,4'-DDT	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
309-00-2	Aldrin	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Soil

October 13, 2015 12:55 pm

10/13/2015

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
319-85-7	beta-BHC	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
57-74-9	Chlordane, total	ND		ug/kg dry	6.89	6.89	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
319-86-8	delta-BHC	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
60-57-1	Dieldrin	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
959-98-8	Endosulfan I	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
33213-65-9	Endosulfan II	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
72-20-8	Endrin	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
53494-70-5	Endrin ketone	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 05:47	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
76-44-8	Heptachlor	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.72	1.72	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
72-43-5	Methoxychlor	ND		ug/kg dry	8.61	8.61	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 05:47	AMC
8001-35-2	Toxaphene	ND		ug/kg dry	87.1	87.1	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 12:52	10/20/2015 05:47	AMC
	Surrogate Recoveries	Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	91.6 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	97.0 %			30-140						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:53	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:53	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:53	AMC



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 12:55 pm	<u>Date Received</u> 10/13/2015
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:53	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:53	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:53	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	10/16/2015 12:52	10/20/2015 06:53	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0174	0.0174	1	EPA 8082A Certifications:	10/16/2015 12:52	10/20/2015 06:53	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	111 %			30-140						
2051-24-3	Surrogate: Decachlorobiphenyl	102 %			30-140						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	20.9	20.9	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 23:20	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	20.9	20.9	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 23:20	AMC
94-75-7	2,4-D	ND		ug/kg dry	20.9	20.9	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/19/2015 04:50	10/19/2015 23:20	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	108 %			30-150						

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	3470		mg/kg dry	5.22	5.22	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-36-0	Antimony	ND		mg/kg dry	0.522	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-38-2	Arsenic	ND		mg/kg dry	1.04	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-39-3	Barium	48.7		mg/kg dry	1.04	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-41-7	Beryllium	ND		mg/kg dry	0.104	0.104	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-43-9	Cadmium	ND		mg/kg dry	0.313	0.313	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:12	ALD



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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15J0508

170370001

Soil

October 13, 2015 12:55 pm

10/13/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	Calcium	662		mg/kg dry	0.522	5.22	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-47-3	Chromium	17.0		mg/kg dry	0.522	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-48-4	Cobalt	8.95		mg/kg dry	0.522	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-50-8	Copper	12.3		mg/kg dry	0.522	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7439-89-6	Iron	7530		mg/kg dry	2.09	2.09	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7439-92-1	Lead	3.58		mg/kg dry	0.313	0.313	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7439-95-4	Magnesium	1580		mg/kg dry	5.22	5.22	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7439-96-5	Manganese	223		mg/kg dry	0.522	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-02-0	Nickel	38.9		mg/kg dry	0.522	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-09-7	Potassium	857		mg/kg dry	5.22	5.22	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7782-49-2	Selenium	ND		mg/kg dry	1.04	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-22-4	Silver	ND		mg/kg dry	0.522	0.522	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-23-5	Sodium	130		mg/kg dry	10.4	10.4	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-28-0	Thallium	ND		mg/kg dry	1.04	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-62-2	Vanadium	11.0		mg/kg dry	1.04	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD
7440-66-6	Zinc	14.3		mg/kg dry	1.04	1.04	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/14/2015 13:29	10/14/2015 19:12	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0313	0.0313	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	10/16/2015 08:17	10/16/2015 19:14	ALD

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: SB02_18-20

York Sample ID: 15J0508-12

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil	<u>Collection Date/Time</u> October 13, 2015 12:55 pm	<u>Date Received</u> 10/13/2015
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Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* ORP (Oxidation-Reduction Potential) (Ag/AgCl)	440		mV	-200	-200	1	ASTM 1498-08 M Certifications:	10/13/2015 21:32	10/13/2015 23:13	KK

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	95.8		%	0.100	0.100	1	SM 2540G Certifications: CTDOH	10/14/2015 13:26	10/14/2015 16:41	CLS

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.365	0.522	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854	10/17/2015 12:16	10/17/2015 16:33	KK

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	17.0		mg/kg	0.250	0.500	1	Calculation Certifications:	10/20/2015 12:57	10/20/2015 14:39	SC

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.522	0.522	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP	10/20/2015 07:55	10/20/2015 14:24	AD

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	6.25	HT-pH	pH units		0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH	10/13/2015 21:35	10/13/2015 23:14	KK

Sample Information

Client Sample ID: SOTB02_101315

York Sample ID: 15J0508-13

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 13, 2015 12:00 am	<u>Date Received</u> 10/13/2015
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Sample Information

Client Sample ID: SOTB02_101315

York Sample ID: 15J0508-13

<u>York Project (SDG) No.</u> 15J0508	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 13, 2015 12:00 am	<u>Date Received</u> 10/13/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS



Sample Information

Client Sample ID: SOTB02_101315

York Sample ID: 15J0508-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Water

October 13, 2015 12:00 am

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	1.6	SCAL- E, J, B	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-15-0	Carbon disulfide	0.22	J, B	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS



Sample Information

Client Sample ID: SOTB02_101315

York Sample ID: 15J0508-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0508

170370001

Water

October 13, 2015 12:00 am

10/13/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-09-2	Methylene chloride	3.4		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/16/2015 16:43	10/17/2015 01:23	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/16/2015 16:43	10/17/2015 01:23	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/16/2015 16:43	10/17/2015 01:23	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0 Surrogate: 1,2-Dichloroethane-d4 98.9 %
 2037-26-5 Surrogate: Toluene-d8 100 %
 460-00-4 Surrogate: p-Bromofluorobenzene 112 %



Analytical Batch Summary

Batch ID: BJ50655 **Preparation Method:** Analysis Preparation **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/13/15
15J0508-02	SB07_17-19	10/13/15
15J0508-03	SB03_0-2	10/13/15
15J0508-04	SB03_16-17	10/13/15
15J0508-05	SB06_0-2	10/13/15
15J0508-06	SB06_17-19	10/13/15
15J0508-07	SB10_0-2	10/13/15
15J0508-08	SB10_12-14	10/13/15
15J0508-09	SB10_17-19	10/13/15
15J0508-10	DUP01_101315	10/13/15
15J0508-11	SB02_0-2	10/13/15
15J0508-12	SB02_18-20	10/13/15
BJ50655-DUP1	Duplicate	10/13/15

Batch ID: BJ50656 **Preparation Method:** Analysis Preparation **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/13/15
15J0508-02	SB07_17-19	10/13/15
15J0508-03	SB03_0-2	10/13/15
15J0508-04	SB03_16-17	10/13/15
15J0508-05	SB06_0-2	10/13/15
15J0508-06	SB06_17-19	10/13/15
15J0508-07	SB10_0-2	10/13/15
15J0508-08	SB10_12-14	10/13/15
15J0508-09	SB10_17-19	10/13/15
15J0508-10	DUP01_101315	10/13/15
15J0508-11	SB02_0-2	10/13/15
15J0508-12	SB02_18-20	10/13/15
BJ50656-DUP1	Duplicate	10/13/15

Batch ID: BJ50701 **Preparation Method:** % Solids Prep **Prepared By:** CLS

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/14/15
15J0508-02	SB07_17-19	10/14/15
15J0508-03	SB03_0-2	10/14/15
15J0508-04	SB03_16-17	10/14/15
BJ50701-DUP1	Duplicate	10/14/15

Batch ID: BJ50703 **Preparation Method:** % Solids Prep **Prepared By:** CLS

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-05	SB06_0-2	10/14/15



15J0508-06	SB06_17-19	10/14/15
15J0508-07	SB10_0-2	10/14/15
15J0508-08	SB10_12-14	10/14/15
15J0508-09	SB10_17-19	10/14/15
15J0508-10	DUP01_101315	10/14/15
15J0508-11	SB02_0-2	10/14/15
15J0508-12	SB02_18-20	10/14/15
BJ50703-DUP1	Duplicate	10/14/15

Batch ID: BJ50704 **Preparation Method:** EPA 3050B **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/14/15
15J0508-02	SB07_17-19	10/14/15
15J0508-03	SB03_0-2	10/14/15
15J0508-04	SB03_16-17	10/14/15
15J0508-05	SB06_0-2	10/14/15
15J0508-06	SB06_17-19	10/14/15
15J0508-07	SB10_0-2	10/14/15
15J0508-08	SB10_12-14	10/14/15
15J0508-09	SB10_17-19	10/14/15
15J0508-10	DUP01_101315	10/14/15
15J0508-11	SB02_0-2	10/14/15
15J0508-12	SB02_18-20	10/14/15
BJ50704-BLK1	Blank	10/14/15
BJ50704-SRM1	Reference	10/14/15

Batch ID: BJ50817 **Preparation Method:** EPA 3546 SVOA **Prepared By:** TB

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/16/15
15J0508-02	SB07_17-19	10/16/15
15J0508-03	SB03_0-2	10/16/15
15J0508-04	SB03_16-17	10/16/15
15J0508-05	SB06_0-2	10/16/15
15J0508-06	SB06_17-19	10/16/15
15J0508-07	SB10_0-2	10/16/15
15J0508-08	SB10_12-14	10/16/15
15J0508-09	SB10_17-19	10/16/15
15J0508-10	DUP01_101315	10/16/15
15J0508-11	SB02_0-2	10/16/15
15J0508-12	SB02_18-20	10/16/15
BJ50817-BLK1	Blank	10/16/15
BJ50817-BS1	LCS	10/16/15
BJ50817-BSD1	LCS Dup	10/16/15

Batch ID: BJ50832 **Preparation Method:** EPA 7473 soil **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/16/15
15J0508-02	SB07_17-19	10/16/15



15J0508-03	SB03_0-2	10/16/15
15J0508-04	SB03_16-17	10/16/15
15J0508-05	SB06_0-2	10/16/15
15J0508-06	SB06_17-19	10/16/15
15J0508-07	SB10_0-2	10/16/15
15J0508-08	SB10_12-14	10/16/15
15J0508-09	SB10_17-19	10/16/15
15J0508-10	DUP01_101315	10/16/15
15J0508-11	SB02_0-2	10/16/15
15J0508-12	SB02_18-20	10/16/15
BJ50832-BLK1	Blank	10/16/15
BJ50832-DUP1	Duplicate	10/16/15
BJ50832-MS1	Matrix Spike	10/16/15
BJ50832-SRM1	Reference	10/16/15

Batch ID: BJ50858 **Preparation Method:** EPA 3550C **Prepared By:** GRL

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/16/15
15J0508-01	SB07_0-2	10/16/15
15J0508-02	SB07_17-19	10/16/15
15J0508-02	SB07_17-19	10/16/15
15J0508-03	SB03_0-2	10/16/15
15J0508-03	SB03_0-2	10/16/15
15J0508-04	SB03_16-17	10/16/15
15J0508-04	SB03_16-17	10/16/15
15J0508-05	SB06_0-2	10/16/15
15J0508-05	SB06_0-2	10/16/15
15J0508-06	SB06_17-19	10/16/15
15J0508-06	SB06_17-19	10/16/15
15J0508-07	SB10_0-2	10/16/15
15J0508-07	SB10_0-2	10/16/15
15J0508-08	SB10_12-14	10/16/15
15J0508-08	SB10_12-14	10/16/15
15J0508-09	SB10_17-19	10/16/15
15J0508-09	SB10_17-19	10/16/15
15J0508-10	DUP01_101315	10/16/15
15J0508-10	DUP01_101315	10/16/15
15J0508-11	SB02_0-2	10/16/15
15J0508-11	SB02_0-2	10/16/15
15J0508-12	SB02_18-20	10/16/15
15J0508-12	SB02_18-20	10/16/15
BJ50858-BLK1	Blank	10/16/15
BJ50858-BLK1	Blank	10/16/15
BJ50858-BS1	LCS	10/16/15
BJ50858-BS2	LCS	10/16/15
BJ50858-BSD1	LCS Dup	10/16/15

Batch ID: BJ50878 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-13	SOTB02_101315	10/16/15



BJ50878-BLK1	Blank	10/16/15
BJ50878-BS1	LCS	10/16/15
BJ50878-BSD1	LCS Dup	10/16/15

Batch ID: BJ50889 **Preparation Method:** EPA SW846-3060 **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/17/15
15J0508-02	SB07_17-19	10/17/15
15J0508-03	SB03_0-2	10/17/15
15J0508-04	SB03_16-17	10/17/15
15J0508-05	SB06_0-2	10/17/15
15J0508-06	SB06_17-19	10/17/15
15J0508-07	SB10_0-2	10/17/15
15J0508-08	SB10_12-14	10/17/15
15J0508-09	SB10_17-19	10/17/15
15J0508-10	DUP01_101315	10/17/15
15J0508-11	SB02_0-2	10/17/15
15J0508-12	SB02_18-20	10/17/15
BJ50889-BLK1	Blank	10/17/15
BJ50889-DUP1	Duplicate	10/17/15
BJ50889-MS1	Matrix Spike	10/17/15
BJ50889-SRM1	Reference	10/17/15

Batch ID: BJ50898 **Preparation Method:** EPA 3550B/8151A **Prepared By:** TFD

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/19/15
15J0508-02	SB07_17-19	10/19/15
15J0508-03	SB03_0-2	10/19/15
15J0508-04	SB03_16-17	10/19/15
15J0508-05	SB06_0-2	10/19/15
15J0508-06	SB06_17-19	10/19/15
15J0508-07	SB10_0-2	10/19/15
15J0508-08	SB10_12-14	10/19/15
15J0508-09	SB10_17-19	10/19/15
15J0508-10	DUP01_101315	10/19/15
15J0508-11	SB02_0-2	10/19/15
15J0508-12	SB02_18-20	10/19/15
BJ50898-BLK1	Blank	10/19/15
BJ50898-BS1	LCS	10/19/15
BJ50898-BSD1	LCS Dup	10/19/15

Batch ID: BJ50913 **Preparation Method:** Analysis Preparation Soil **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/19/15
15J0508-02	SB07_17-19	10/19/15
15J0508-03	SB03_0-2	10/19/15
15J0508-04	SB03_16-17	10/19/15
15J0508-05	SB06_0-2	10/19/15



15J0508-06	SB06_17-19	10/19/15
15J0508-07	SB10_0-2	10/19/15
15J0508-08	SB10_12-14	10/19/15
15J0508-09	SB10_17-19	10/19/15
15J0508-10	DUP01_101315	10/19/15
BJ50913-BLK1	Blank	10/19/15
BJ50913-SRM1	Reference	10/19/15

Batch ID: BJ50979 **Preparation Method:** Analysis Preparation Soil **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-11	SB02_0-2	10/20/15
15J0508-12	SB02_18-20	10/20/15
BJ50979-BLK1	Blank	10/20/15
BJ50979-DUP1	Duplicate	10/20/15
BJ50979-MS1	Matrix Spike	10/20/15
BJ50979-SRM1	Reference	10/20/15

Batch ID: BJ51015 **Preparation Method:** Analysis Preparation **Prepared By:** SC

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/20/15
15J0508-02	SB07_17-19	10/20/15
15J0508-03	SB03_0-2	10/20/15
15J0508-04	SB03_16-17	10/20/15
15J0508-05	SB06_0-2	10/20/15
15J0508-06	SB06_17-19	10/20/15
15J0508-07	SB10_0-2	10/20/15
15J0508-08	SB10_12-14	10/20/15
15J0508-09	SB10_17-19	10/20/15
15J0508-10	DUP01_101315	10/20/15
15J0508-11	SB02_0-2	10/20/15
15J0508-12	SB02_18-20	10/20/15

Batch ID: BJ51031 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-08	SB10_12-14	10/20/15
15J0508-11	SB02_0-2	10/20/15
BJ51031-BLK1	Blank	10/20/15
BJ51031-BS1	LCS	10/20/15
BJ51031-BSD1	LCS Dup	10/20/15

Batch ID: BJ51032 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
15J0508-01	SB07_0-2	10/20/15
15J0508-02	SB07_17-19	10/20/15
15J0508-03	SB03_0-2	10/20/15



15J0508-04	SB03_16-17	10/20/15
15J0508-05	SB06_0-2	10/20/15
15J0508-06	SB06_17-19	10/20/15
15J0508-07	SB10_0-2	10/20/15
15J0508-09	SB10_17-19	10/20/15
15J0508-10	DUP01_101315	10/20/15
15J0508-12	SB02_18-20	10/20/15
BJ51032-BLK1	Blank	10/20/15
BJ51032-BS1	LCS	10/20/15
BJ51032-BSD1	LCS Dup	10/20/15



Volatile Organic Compounds by GC/MS - 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 BJ50878 - EPA 5030B

Blank (BJ50878-BLK1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	0.49	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	80	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	1.2	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	0.35	0.50	"								
Carbon disulfide	0.22	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BJ50878 - EPA 5030B

Blank (BJ50878-BLK1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.0</i>		<i>"</i>	<i>10.0</i>		<i>100</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.98</i>		<i>"</i>	<i>10.0</i>		<i>99.8</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>11.1</i>		<i>"</i>	<i>10.0</i>		<i>111</i>	<i>79-122</i>				

LCS (BJ50878-BS1)

Prepared & Analyzed: 10/16/2015

1,1,1,2-Tetrachloroethane	11		ug/L	10.0		107	82-126				
1,1,1-Trichloroethane	11		"	10.0		107	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		106	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		100	54-165				
1,1,2-Trichloroethane	10		"	10.0		104	82-123				
1,1-Dichloroethane	11		"	10.0		106	82-129				
1,1-Dichloroethylene	11		"	10.0		105	68-138				
1,2,3-Trichlorobenzene	10		"	10.0		102	76-136				
1,2,3-Trichloropropane	11		"	10.0		108	77-128				
1,2,4-Trichlorobenzene	11		"	10.0		106	76-137				
1,2,4-Trimethylbenzene	12		"	10.0		117	82-132				
1,2-Dibromo-3-chloropropane	11		"	10.0		105	45-147				
1,2-Dibromoethane	11		"	10.0		106	83-124				
1,2-Dichlorobenzene	11		"	10.0		106	79-123				
1,2-Dichloroethane	11		"	10.0		106	73-132				
1,2-Dichloropropane	11		"	10.0		105	78-126				
1,3,5-Trimethylbenzene	12		"	10.0		115	80-131				
1,3-Dichlorobenzene	11		"	10.0		107	86-122				
1,4-Dichlorobenzene	11		"	10.0		109	85-124				
1,4-Dioxane	550		"	200		274	10-349				
2-Butanone	9.3		"	10.0		92.8	49-152				
2-Hexanone	12		"	10.0		118	51-146				
4-Methyl-2-pentanone	6.5		"	10.0		64.7	57-145				
Acetone	9.4		"	10.0		94.0	14-150				
Acrolein	8.8		"	10.0		88.2	10-153				
Acrylonitrile	8.9		"	10.0		89.1	51-150				
Benzene	11		"	10.0		106	85-126				
Bromochloromethane	9.9		"	10.0		99.2	77-128				
Bromodichloromethane	11		"	10.0		106	79-128				
Bromoform	11		"	10.0		110	78-133				
Bromomethane	7.0		"	10.0		69.5	43-168				



Volatile Organic Compounds by GC/MS - 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 BJ50878 - EPA 5030B

LCS (BJ50878-BS1)

Prepared & Analyzed: 10/16/2015

Carbon disulfide	11		ug/L	10.0		105	68-146				
Carbon tetrachloride	11		"	10.0		110	77-141				
Chlorobenzene	11		"	10.0		109	88-120				
Chloroethane	9.7		"	10.0		97.3	65-136				
Chloroform	11		"	10.0		106	82-128				
Chloromethane	9.4		"	10.0		93.9	43-155				
cis-1,2-Dichloroethylene	10		"	10.0		104	83-129				
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131				
Cyclohexane	10		"	10.0		103	63-149				
Dibromochloromethane	11		"	10.0		109	80-130				
Dibromomethane	11		"	10.0		106	72-134				
Dichlorodifluoromethane	13		"	10.0		133	44-144				
Ethyl Benzene	11		"	10.0		112	80-131				
Hexachlorobutadiene	10		"	10.0		101	67-146				
Isopropylbenzene	12		"	10.0		116	76-140				
Methyl acetate	8.6		"	10.0		85.9	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135				
Methylcyclohexane	10		"	10.0		104	72-143				
Methylene chloride	9.9		"	10.0		98.6	55-137				
n-Butylbenzene	11		"	10.0		110	79-132				
n-Propylbenzene	11		"	10.0		113	78-133				
o-Xylene	11		"	10.0		114	78-130				
p- & m- Xylenes	23		"	20.0		114	77-133				
p-Isopropyltoluene	11		"	10.0		114	81-136				
sec-Butylbenzene	11		"	10.0		115	79-137				
Styrene	12		"	10.0		119	67-132				
tert-Butyl alcohol (TBA)	5.1		"	10.0		51.2	25-162				
tert-Butylbenzene	12		"	10.0		117	77-138				
Tetrachloroethylene	10		"	10.0		105	82-131				
Toluene	11		"	10.0		107	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		105	80-132				
trans-1,3-Dichloropropylene	9.9		"	10.0		99.1	78-131				
Trichloroethylene	10		"	10.0		104	82-128				
Trichlorofluoromethane	11		"	10.0		106	67-139				
Vinyl Chloride	11		"	10.0		109	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.96</i>		<i>"</i>	<i>10.0</i>		<i>99.6</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - 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 BJ50878 - EPA 5030B

LCS Dup (BJ50878-BSD1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

1,1,1,2-Tetrachloroethane	10		ug/L	10.0		105	82-126		2.08	30	
1,1,1-Trichloroethane	11		"	10.0		107	78-136		0.187	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		104	76-129		2.19	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		102	54-165		1.87	30	
1,1,2-Trichloroethane	10		"	10.0		104	82-123		0.0957	30	
1,1-Dichloroethane	11		"	10.0		106	82-129		0.377	30	
1,1-Dichloroethylene	10		"	10.0		105	68-138		0.476	30	
1,2,3-Trichlorobenzene	11		"	10.0		113	76-136		9.39	30	
1,2,3-Trichloropropane	10		"	10.0		104	77-128		3.02	30	
1,2,4-Trichlorobenzene	11		"	10.0		110	76-137		4.63	30	
1,2,4-Trimethylbenzene	11		"	10.0		114	82-132		3.21	30	
1,2-Dibromo-3-chloropropane	11		"	10.0		109	45-147		3.45	30	
1,2-Dibromoethane	11		"	10.0		105	83-124		1.13	30	
1,2-Dichlorobenzene	10		"	10.0		104	79-123		1.72	30	
1,2-Dichloroethane	11		"	10.0		107	73-132		1.03	30	
1,2-Dichloropropane	10		"	10.0		104	78-126		0.763	30	
1,3,5-Trimethylbenzene	11		"	10.0		111	80-131		3.89	30	
1,3-Dichlorobenzene	10		"	10.0		103	86-122		3.82	30	
1,4-Dichlorobenzene	11		"	10.0		106	85-124		3.35	30	
1,4-Dioxane	480		"	200		240	10-349		13.5	30	
2-Butanone	9.5		"	10.0		95.0	49-152		2.34	30	
2-Hexanone	12		"	10.0		116	51-146		2.14	30	
4-Methyl-2-pentanone	6.5		"	10.0		65.3	57-145		0.923	30	
Acetone	9.8		"	10.0		97.5	14-150		3.66	30	
Acrolein	7.8		"	10.0		77.8	10-153		12.5	30	
Acrylonitrile	9.8		"	10.0		97.8	51-150		9.31	30	
Benzene	10		"	10.0		105	85-126		1.05	30	
Bromochloromethane	9.9		"	10.0		99.1	77-128		0.101	30	
Bromodichloromethane	11		"	10.0		107	79-128		0.659	30	
Bromoform	11		"	10.0		110	78-133		0.272	30	
Bromomethane	6.3		"	10.0		63.4	43-168		9.18	30	
Carbon disulfide	10		"	10.0		102	68-146		2.80	30	
Carbon tetrachloride	11		"	10.0		109	77-141		0.731	30	
Chlorobenzene	11		"	10.0		108	88-120		0.920	30	
Chloroethane	9.7		"	10.0		97.3	65-136		0.00	30	
Chloroform	10		"	10.0		105	82-128		0.760	30	
Chloromethane	9.2		"	10.0		92.2	43-155		1.83	30	
cis-1,2-Dichloroethylene	10		"	10.0		104	83-129		0.288	30	
cis-1,3-Dichloropropylene	10		"	10.0		103	80-131		0.977	30	
Cyclohexane	10		"	10.0		101	63-149		2.05	30	
Dibromochloromethane	11		"	10.0		110	80-130		0.183	30	
Dibromomethane	11		"	10.0		108	72-134		1.78	30	
Dichlorodifluoromethane	13		"	10.0		133	44-144		0.151	30	
Ethyl Benzene	11		"	10.0		110	80-131		0.901	30	
Hexachlorobutadiene	10		"	10.0		101	67-146		0.198	30	
Isopropylbenzene	11		"	10.0		114	76-140		1.74	30	
Methyl acetate	8.3		"	10.0		82.9	51-139		3.55	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		109	76-135		1.47	30	
Methylcyclohexane	11		"	10.0		105	72-143		1.24	30	
Methylene chloride	9.6		"	10.0		95.9	55-137		2.78	30	
n-Butylbenzene	11		"	10.0		109	79-132		1.00	30	



Volatile Organic Compounds by GC/MS - 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 BJ50878 - EPA 5030B

LCS Dup (BJ50878-BSD1)

Prepared: 10/16/2015 Analyzed: 10/17/2015

n-Propylbenzene	11		ug/L	10.0		110	78-133		2.24	30	
o-Xylene	11		"	10.0		113	78-130		1.05	30	
p- & m- Xylenes	23		"	20.0		114	77-133		0.219	30	
p-Isopropyltoluene	11		"	10.0		113	81-136		1.32	30	
sec-Butylbenzene	11		"	10.0		114	79-137		0.874	30	
Styrene	12		"	10.0		119	67-132		0.168	30	
tert-Butyl alcohol (TBA)	4.7		"	10.0		46.6	25-162		9.41	30	
tert-Butylbenzene	11		"	10.0		113	77-138		3.66	30	
Tetrachloroethylene	10		"	10.0		105	82-131		0.0954	30	
Toluene	11		"	10.0		108	80-127		0.372	30	
trans-1,2-Dichloroethylene	10		"	10.0		102	80-132		2.71	30	
trans-1,3-Dichloropropylene	10		"	10.0		101	78-131		1.90	30	
Trichloroethylene	11		"	10.0		106	82-128		1.62	30	
Trichlorofluoromethane	11		"	10.0		106	67-139		0.565	30	
Vinyl Chloride	11		"	10.0		110	58-145		0.183	30	
Surrogate: 1,2-Dichloroethane-d4	10.0		"	10.0		100	69-130				
Surrogate: Toluene-d8	9.97		"	10.0		99.7	81-117				
Surrogate: p-Bromofluorobenzene	10.4		"	10.0		104	79-122				

Batch BJ51031 - EPA 5035A

Blank (BJ51031-BLK1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
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	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

Batch BJ51031 - EPA 5035A

Blank (BJ51031-BLK1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

Bromomethane	ND	5.0	ug/kg wet										
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	"										
Cyclohexane	ND	5.0	"										
Dibromochloromethane	ND	5.0	"										
Dibromomethane	ND	5.0	"										
Dichlorodifluoromethane	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Hexachlorobutadiene	ND	5.0	"										
Isopropylbenzene	ND	5.0	"										
Methyl acetate	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methylcyclohexane	ND	5.0	"										
Methylene chloride	ND	10	"										
n-Butylbenzene	ND	5.0	"										
n-Propylbenzene	ND	5.0	"										
o-Xylene	ND	5.0	"										
p- & m- Xylenes	ND	10	"										
p-Isopropyltoluene	ND	5.0	"										
sec-Butylbenzene	ND	5.0	"										
Styrene	ND	5.0	"										
tert-Butyl alcohol (TBA)	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	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>61.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>123</i>	<i>77-125</i>						
<i>Surrogate: Toluene-d8</i>	<i>45.4</i>		<i>"</i>	<i>50.0</i>		<i>90.7</i>	<i>85-120</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>56.9</i>		<i>"</i>	<i>50.0</i>		<i>114</i>	<i>76-130</i>						



Volatile Organic Compounds by GC/MS - 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 BJ51031 - EPA 5035A

LCS (BJ51031-BS1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	52		ug/L	50.0		104	75-129				
1,1,1-Trichloroethane	72		"	50.0		144	71-137	High Bias			
1,1,2,2-Tetrachloroethane	37		"	50.0		74.8	79-129	Low Bias			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		106	58-146				
1,1,2-Trichloroethane	46		"	50.0		91.8	83-123				
1,1-Dichloroethane	56		"	50.0		111	75-130				
1,1-Dichloroethylene	48		"	50.0		96.8	64-137				
1,2,3-Trichlorobenzene	54		"	50.0		109	81-140				
1,2,3-Trichloropropane	44		"	50.0		88.9	81-126				
1,2,4-Trichlorobenzene	49		"	50.0		98.6	80-141				
1,2,4-Trimethylbenzene	44		"	50.0		88.4	84-125				
1,2-Dibromo-3-chloropropane	49		"	50.0		98.7	74-142				
1,2-Dibromoethane	52		"	50.0		104	86-123				
1,2-Dichlorobenzene	45		"	50.0		90.2	85-122				
1,2-Dichloroethane	67		"	50.0		133	71-133				
1,2-Dichloropropane	44		"	50.0		87.4	81-122				
1,3,5-Trimethylbenzene	46		"	50.0		92.3	82-126				
1,3-Dichlorobenzene	46		"	50.0		92.1	84-124				
1,4-Dichlorobenzene	46		"	50.0		92.2	84-124				
1,4-Dioxane	1000		"	1000		104	10-228				
2-Butanone	60		"	50.0		120	58-147				
2-Hexanone	44		"	50.0		88.1	70-139				
4-Methyl-2-pentanone	48		"	50.0		96.9	72-132				
Acetone	39		"	50.0		77.7	36-155				
Acrolein	22		"	50.0		43.4	10-238				
Acrylonitrile	48		"	50.0		96.4	66-141				
Benzene	51		"	50.0		102	77-127				
Bromochloromethane	52		"	50.0		104	74-129				
Bromodichloromethane	53		"	50.0		107	81-124				
Bromoform	50		"	50.0		100	80-136				
Bromomethane	55		"	50.0		109	32-177				
Carbon disulfide	48		"	50.0		95.3	10-136				
Carbon tetrachloride	76		"	50.0		152	66-143	High Bias			
Chlorobenzene	49		"	50.0		97.8	86-120				
Chloroethane	49		"	50.0		97.8	51-142				
Chloroform	61		"	50.0		123	76-131				
Chloromethane	46		"	50.0		92.3	49-132				
cis-1,2-Dichloroethylene	54		"	50.0		109	74-132				
cis-1,3-Dichloropropylene	48		"	50.0		96.4	81-129				
Cyclohexane	53		"	50.0		106	70-130				
Dibromochloromethane	56		"	50.0		111	10-200				
Dibromomethane	53		"	50.0		105	83-124				
Dichlorodifluoromethane	72		"	50.0		144	28-158				
Ethyl Benzene	48		"	50.0		95.2	84-125				
Hexachlorobutadiene	61		"	50.0		121	83-133				
Isopropylbenzene	42		"	50.0		84.0	81-127				
Methyl acetate	46		"	50.0		91.1	41-143				
Methyl tert-butyl ether (MTBE)	66		"	50.0		131	74-131				
Methylcyclohexane	47		"	50.0		94.3	70-130				
Methylene chloride	43		"	50.0		86.7	57-141				
n-Butylbenzene	42		"	50.0		83.2	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level

Batch BJ51031 - EPA 5035A

LCS (BJ51031-BS1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

n-Propylbenzene	40		ug/L	50.0		80.0	74-136			
o-Xylene	50		"	50.0		101	83-123			
p- & m- Xylenes	99		"	100		99.1	82-128			
p-Isopropyltoluene	46		"	50.0		91.7	85-125			
sec-Butylbenzene	44		"	50.0		87.1	83-125			
Styrene	51		"	50.0		101	86-126			
tert-Butyl alcohol (TBA)	59		"	50.0		117	70-130			
tert-Butylbenzene	46		"	50.0		91.1	80-127			
Tetrachloroethylene	61		"	50.0		122	80-129			
Toluene	46		"	50.0		92.2	85-121			
trans-1,2-Dichloroethylene	54		"	50.0		109	72-132			
trans-1,3-Dichloropropylene	50		"	50.0		101	78-132			
Trichloroethylene	53		"	50.0		107	84-123			
Trichlorofluoromethane	54		"	50.0		108	62-140			
Vinyl Chloride	51		"	50.0		102	52-130			
Surrogate: 1,2-Dichloroethane-d4	58.5		"	50.0		117	77-125			
Surrogate: Toluene-d8	43.7		"	50.0		87.4	85-120			
Surrogate: p-Bromofluorobenzene	53.0		"	50.0		106	76-130			

LCS Dup (BJ51031-BSD1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	52		ug/L	50.0		104	75-129		0.192	30
1,1,1-Trichloroethane	73		"	50.0		146	71-137	High Bias	1.39	30
1,1,2,2-Tetrachloroethane	39		"	50.0		78.0	79-129	Low Bias	4.11	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52		"	50.0		104	58-146		1.35	30
1,1,2-Trichloroethane	45		"	50.0		89.7	83-123		2.31	30
1,1-Dichloroethane	54		"	50.0		108	75-130		2.92	30
1,1-Dichloroethylene	46		"	50.0		91.2	64-137		5.98	30
1,2,3-Trichlorobenzene	54		"	50.0		108	81-140		0.647	30
1,2,3-Trichloropropane	45		"	50.0		90.5	81-126		1.78	30
1,2,4-Trichlorobenzene	52		"	50.0		104	80-141		5.16	30
1,2,4-Trimethylbenzene	45		"	50.0		89.2	84-125		0.991	30
1,2-Dibromo-3-chloropropane	51		"	50.0		102	74-142		3.27	30
1,2-Dibromoethane	52		"	50.0		103	86-123		1.08	30
1,2-Dichlorobenzene	47		"	50.0		94.0	85-122		4.08	30
1,2-Dichloroethane	66		"	50.0		132	71-133		0.783	30
1,2-Dichloropropane	42		"	50.0		84.6	81-122		3.21	30
1,3,5-Trimethylbenzene	46		"	50.0		91.6	82-126		0.740	30
1,3-Dichlorobenzene	47		"	50.0		93.7	84-124		1.68	30
1,4-Dichlorobenzene	47		"	50.0		94.9	84-124		2.82	30
1,4-Dioxane	980		"	1000		98.0	10-228		6.26	30
2-Butanone	60		"	50.0		119	58-147		1.19	30
2-Hexanone	43		"	50.0		86.3	70-139		2.13	30
4-Methyl-2-pentanone	45		"	50.0		90.6	72-132		6.70	30
Acetone	38		"	50.0		76.4	36-155		1.74	30
Acrolein	28		"	50.0		56.5	10-238		26.3	30
Acrylonitrile	48		"	50.0		96.8	66-141		0.414	30
Benzene	52		"	50.0		104	77-127		1.52	30
Bromochloromethane	52		"	50.0		104	74-129		0.538	30
Bromodichloromethane	53		"	50.0		106	81-124		0.488	30
Bromoform	52		"	50.0		104	80-136		3.41	30
Bromomethane	53		"	50.0		105	32-177		3.76	30
Carbon disulfide	46		"	50.0		92.6	10-136		2.92	30



Volatile Organic Compounds by GC/MS - 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 BJ51031 - EPA 5035A

LCS Dup (BJ51031-BSD1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

Carbon tetrachloride	76		ug/L	50.0		152	66-143	High Bias	0.249	30	
Chlorobenzene	49		"	50.0		98.7	86-120		0.916	30	
Chloroethane	48		"	50.0		95.9	51-142		1.94	30	
Chloroform	61		"	50.0		123	76-131		0.0326	30	
Chloromethane	45		"	50.0		90.6	49-132		1.84	30	
cis-1,2-Dichloroethylene	54		"	50.0		107	74-132		1.39	30	
cis-1,3-Dichloropropylene	47		"	50.0		93.8	81-129		2.78	30	
Cyclohexane	51		"	50.0		101	70-130		4.37	30	
Dibromochloromethane	55		"	50.0		110	10-200		0.902	30	
Dibromomethane	51		"	50.0		103	83-124		2.46	30	
Dichlorodifluoromethane	70		"	50.0		141	28-158		1.79	30	
Ethyl Benzene	49		"	50.0		97.1	84-125		2.04	30	
Hexachlorobutadiene	61		"	50.0		121	83-133		0.165	30	
Isopropylbenzene	46		"	50.0		91.3	81-127		8.32	30	
Methyl acetate	46		"	50.0		92.2	41-143		1.13	30	
Methyl tert-butyl ether (MTBE)	67		"	50.0		135	74-131	High Bias	2.87	30	
Methylcyclohexane	45		"	50.0		90.2	70-130		4.42	30	
Methylene chloride	43		"	50.0		86.0	57-141		0.741	30	
n-Butylbenzene	42		"	50.0		84.2	80-130		1.17	30	
n-Propylbenzene	41		"	50.0		82.7	74-136		3.34	30	
o-Xylene	48		"	50.0		96.9	83-123		4.14	30	
p- & m- Xylenes	100		"	100		103	82-128		4.30	30	
p-Isopropyltoluene	45		"	50.0		90.8	85-125		1.03	30	
sec-Butylbenzene	43		"	50.0		85.6	83-125		1.74	30	
Styrene	49		"	50.0		98.4	86-126		3.00	30	
tert-Butyl alcohol (TBA)	58		"	50.0		117	70-130		0.632	30	
tert-Butylbenzene	45		"	50.0		90.5	80-127		0.661	30	
Tetrachloroethylene	60		"	50.0		119	80-129		2.47	30	
Toluene	44		"	50.0		88.9	85-121		3.69	30	
trans-1,2-Dichloroethylene	55		"	50.0		111	72-132		1.48	30	
trans-1,3-Dichloropropylene	50		"	50.0		101	78-132		0.0594	30	
Trichloroethylene	53		"	50.0		106	84-123		0.376	30	
Trichlorofluoromethane	52		"	50.0		104	62-140		3.48	30	
Vinyl Chloride	50		"	50.0		100	52-130		1.84	30	
Surrogate: 1,2-Dichloroethane-d4	60.2		"	50.0		120	77-125				
Surrogate: Toluene-d8	43.8		"	50.0		87.6	85-120				
Surrogate: p-Bromofluorobenzene	54.2		"	50.0		108	76-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BJ51032 - EPA 5035A

Blank (BJ51032-BLK1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
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	"								
1,2,3-Trichlorobenzene	4.3	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	2.8	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	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	"								
Cyclohexane	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Flag	RPD	
		Limit	Units						Level	Result

Batch BJ51032 - EPA 5035A

Blank (BJ51032-BLK1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

n-Propylbenzene	ND	5.0	ug/kg wet							
o-Xylene	ND	5.0	"							
p- & m- Xylenes	ND	10	"							
p-Isopropyltoluene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
tert-Butyl alcohol (TBA)	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	"							

<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.7		ug/L	50.0	101	77-125				
<i>Surrogate: Toluene-d8</i>	51.0		"	50.0	102	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	44.3		"	50.0	88.6	76-130				

LCS (BJ51032-BS1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	52		ug/L	50.0	104	75-129				
1,1,1-Trichloroethane	51		"	50.0	101	71-137				
1,1,2,2-Tetrachloroethane	53		"	50.0	106	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	99.0	58-146				
1,1,2-Trichloroethane	50		"	50.0	99.9	83-123				
1,1-Dichloroethane	50		"	50.0	99.7	75-130				
1,1-Dichloroethylene	50		"	50.0	99.4	64-137				
1,2,3-Trichlorobenzene	54		"	50.0	108	81-140				
1,2,3-Trichloropropane	53		"	50.0	107	81-126				
1,2,4-Trichlorobenzene	53		"	50.0	106	80-141				
1,2,4-Trimethylbenzene	52		"	50.0	104	84-125				
1,2-Dibromo-3-chloropropane	56		"	50.0	111	74-142				
1,2-Dibromoethane	53		"	50.0	107	86-123				
1,2-Dichlorobenzene	53		"	50.0	105	85-122				
1,2-Dichloroethane	51		"	50.0	103	71-133				
1,2-Dichloropropane	47		"	50.0	95.0	81-122				
1,3,5-Trimethylbenzene	51		"	50.0	101	82-126				
1,3-Dichlorobenzene	51		"	50.0	103	84-124				
1,4-Dichlorobenzene	51		"	50.0	101	84-124				
1,4-Dioxane	1100		"	1000	106	10-228				
2-Butanone	48		"	50.0	95.5	58-147				
2-Hexanone	55		"	50.0	110	70-139				
4-Methyl-2-pentanone	46		"	50.0	91.1	72-132				
Acetone	56		"	50.0	112	36-155				
Acrolein	63		"	50.0	127	10-238				
Acrylonitrile	53		"	50.0	105	66-141				
Benzene	51		"	50.0	102	77-127				
Bromochloromethane	51		"	50.0	103	74-129				
Bromodichloromethane	49		"	50.0	98.8	81-124				
Bromoform	54		"	50.0	109	80-136				
Bromomethane	47		"	50.0	93.9	32-177				



Volatile Organic Compounds by GC/MS - 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 BJ51032 - EPA 5035A

LCS (BJ51032-BS1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

Carbon disulfide	48		ug/L	50.0		96.1	10-136				
Carbon tetrachloride	53		"	50.0		106	66-143				
Chlorobenzene	52		"	50.0		103	86-120				
Chloroethane	48		"	50.0		96.8	51-142				
Chloroform	52		"	50.0		104	76-131				
Chloromethane	50		"	50.0		100	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		101	74-132				
cis-1,3-Dichloropropylene	51		"	50.0		102	81-129				
Cyclohexane	51		"	50.0		102	70-130				
Dibromochloromethane	54		"	50.0		107	10-200				
Dibromomethane	50		"	50.0		99.4	83-124				
Dichlorodifluoromethane	51		"	50.0		102	28-158				
Ethyl Benzene	50		"	50.0		100	84-125				
Hexachlorobutadiene	53		"	50.0		106	83-133				
Isopropylbenzene	50		"	50.0		101	81-127				
Methyl acetate	52		"	50.0		105	41-143				
Methyl tert-butyl ether (MTBE)	51		"	50.0		101	74-131				
Methylcyclohexane	46		"	50.0		91.0	70-130				
Methylene chloride	49		"	50.0		98.1	57-141				
n-Butylbenzene	52		"	50.0		103	80-130				
n-Propylbenzene	51		"	50.0		102	74-136				
o-Xylene	50		"	50.0		101	83-123				
p- & m- Xylenes	98		"	100		97.6	82-128				
p-Isopropyltoluene	51		"	50.0		101	85-125				
sec-Butylbenzene	50		"	50.0		100	83-125				
Styrene	52		"	50.0		103	86-126				
tert-Butyl alcohol (TBA)	56		"	50.0		111	70-130				
tert-Butylbenzene	52		"	50.0		104	80-127				
Tetrachloroethylene	56		"	50.0		111	80-129				
Toluene	48		"	50.0		95.0	85-121				
trans-1,2-Dichloroethylene	50		"	50.0		99.6	72-132				
trans-1,3-Dichloropropylene	50		"	50.0		99.3	78-132				
Trichloroethylene	48		"	50.0		96.0	84-123				
Trichlorofluoromethane	52		"	50.0		103	62-140				
Vinyl Chloride	52		"	50.0		104	52-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>51.0</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>47.7</i>		<i>"</i>	<i>50.0</i>		<i>95.3</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>48.3</i>		<i>"</i>	<i>50.0</i>		<i>96.6</i>	<i>76-130</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BJ51032 - EPA 5035A

LCS Dup (BJ51032-BSD1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129			1.47	30
1,1,1-Trichloroethane	47		"	50.0		94.0	71-137			7.63	30
1,1,2,2-Tetrachloroethane	56		"	50.0		112	79-129			6.28	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46		"	50.0		91.5	58-146			7.83	30
1,1,2-Trichloroethane	53		"	50.0		106	83-123			5.64	30
1,1-Dichloroethane	48		"	50.0		96.8	75-130			2.99	30
1,1-Dichloroethylene	45		"	50.0		89.9	64-137			10.0	30
1,2,3-Trichlorobenzene	56		"	50.0		112	81-140			3.50	30
1,2,3-Trichloropropane	56		"	50.0		111	81-126			4.26	30
1,2,4-Trichlorobenzene	52		"	50.0		105	80-141			0.875	30
1,2,4-Trimethylbenzene	47		"	50.0		93.9	84-125			9.84	30
1,2-Dibromo-3-chloropropane	62		"	50.0		124	74-142			10.7	30
1,2-Dibromoethane	54		"	50.0		108	86-123			0.970	30
1,2-Dichlorobenzene	49		"	50.0		97.4	85-122			7.73	30
1,2-Dichloroethane	49		"	50.0		97.8	71-133			4.75	30
1,2-Dichloropropane	51		"	50.0		102	81-122			7.38	30
1,3,5-Trimethylbenzene	47		"	50.0		93.8	82-126			7.39	30
1,3-Dichlorobenzene	48		"	50.0		95.0	84-124			7.67	30
1,4-Dichlorobenzene	47		"	50.0		94.4	84-124			7.17	30
1,4-Dioxane	1200		"	1000		125	10-228			16.3	30
2-Butanone	52		"	50.0		104	58-147			8.52	30
2-Hexanone	62		"	50.0		124	70-139			11.8	30
4-Methyl-2-pentanone	53		"	50.0		106	72-132			15.1	30
Acetone	54		"	50.0		109	36-155			3.27	30
Acrolein	71		"	50.0		142	10-238			11.1	30
Acrylonitrile	58		"	50.0		115	66-141			9.16	30
Benzene	48		"	50.0		95.2	77-127			6.53	30
Bromochloromethane	50		"	50.0		101	74-129			1.67	30
Bromodichloromethane	50		"	50.0		101	81-124			2.04	30
Bromoform	56		"	50.0		112	80-136			2.63	30
Bromomethane	41		"	50.0		82.1	32-177			13.4	30
Carbon disulfide	44		"	50.0		88.0	10-136			8.84	30
Carbon tetrachloride	47		"	50.0		94.8	66-143			11.3	30
Chlorobenzene	50		"	50.0		99.3	86-120			3.83	30
Chloroethane	42		"	50.0		84.2	51-142			13.9	30
Chloroform	48		"	50.0		96.8	76-131			7.21	30
Chloromethane	45		"	50.0		90.5	49-132			10.1	30
cis-1,2-Dichloroethylene	47		"	50.0		94.0	74-132			7.34	30
cis-1,3-Dichloropropylene	49		"	50.0		97.5	81-129			4.41	30
Cyclohexane	47		"	50.0		94.5	70-130			7.81	30
Dibromochloromethane	53		"	50.0		106	10-200			1.20	30
Dibromomethane	52		"	50.0		104	83-124			4.33	30
Dichlorodifluoromethane	45		"	50.0		89.0	28-158			13.4	30
Ethyl Benzene	49		"	50.0		97.1	84-125			3.10	30
Hexachlorobutadiene	47		"	50.0		94.0	83-133			12.1	30
Isopropylbenzene	47		"	50.0		94.3	81-127			6.45	30
Methyl acetate	54		"	50.0		108	41-143			3.35	30
Methyl tert-butyl ether (MTBE)	52		"	50.0		103	74-131			2.05	30
Methylcyclohexane	46		"	50.0		92.3	70-130			1.40	30
Methylene chloride	46		"	50.0		91.4	57-141			7.01	30
n-Butylbenzene	47		"	50.0		93.3	80-130			10.3	30



Volatile Organic Compounds by GC/MS - 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 BJ51032 - EPA 5035A

LCS Dup (BJ51032-BSD1)

Prepared: 10/20/2015 Analyzed: 10/21/2015

n-Propylbenzene	47		ug/L	50.0		93.9	74-136		8.44	30	
o-Xylene	49		"	50.0		99.0	83-123		1.78	30	
p- & m- Xylenes	94		"	100		94.0	82-128		3.72	30	
p-Isopropyltoluene	44		"	50.0		89.0	85-125		13.1	30	
sec-Butylbenzene	47		"	50.0		93.2	83-125		7.12	30	
Styrene	51		"	50.0		103	86-126		0.641	30	
tert-Butyl alcohol (TBA)	67		"	50.0		135	70-130	High Bias	19.4	30	
tert-Butylbenzene	45		"	50.0		89.7	80-127		14.2	30	
Tetrachloroethylene	48		"	50.0		95.4	80-129		15.2	30	
Toluene	48		"	50.0		96.7	85-121		1.71	30	
trans-1,2-Dichloroethylene	46		"	50.0		92.4	72-132		7.52	30	
trans-1,3-Dichloropropylene	52		"	50.0		103	78-132		3.70	30	
Trichloroethylene	48		"	50.0		96.7	84-123		0.706	30	
Trichlorofluoromethane	47		"	50.0		93.3	62-140		9.84	30	
Vinyl Chloride	47		"	50.0		93.2	52-130		11.3	30	
Surrogate: 1,2-Dichloroethane-d4	49.7		"	50.0		99.3	77-125				
Surrogate: Toluene-d8	48.0		"	50.0		96.1	85-120				
Surrogate: p-Bromofluorobenzene	47.5		"	50.0		94.9	76-130				



Semivolatile Organic Compounds by GC/MS - 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 BJ50817 - EPA 3546 SVOA

Blank (BJ50817-BLK1)

Prepared & Analyzed: 10/16/2015

1,1'-Biphenyl	ND	62.6	ug/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	125	"								
1,2,4-Trichlorobenzene	ND	62.6	"								
1,2-Dichlorobenzene	ND	62.6	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	62.6	"								
1,3-Dichlorobenzene	ND	62.6	"								
1,4-Dichlorobenzene	ND	62.6	"								
2,3,4,6-Tetrachlorophenol	ND	125	"								
2,4,5-Trichlorophenol	ND	62.6	"								
2,4,6-Trichlorophenol	ND	62.6	"								
2,4-Dichlorophenol	ND	62.6	"								
2,4-Dimethylphenol	ND	62.6	"								
2,4-Dinitrophenol	ND	125	"								
2,4-Dinitrotoluene	ND	62.6	"								
2,6-Dinitrotoluene	ND	62.6	"								
2-Chloronaphthalene	ND	62.6	"								
2-Chlorophenol	ND	62.6	"								
2-Methylnaphthalene	ND	62.6	"								
2-Methylphenol	ND	62.6	"								
2-Nitroaniline	ND	125	"								
2-Nitrophenol	ND	62.6	"								
3- & 4-Methylphenols	ND	62.6	"								
3,3'-Dichlorobenzidine	ND	62.6	"								
3-Nitroaniline	ND	125	"								
4,6-Dinitro-2-methylphenol	ND	125	"								
4-Bromophenyl phenyl ether	ND	62.6	"								
4-Chloro-3-methylphenol	ND	62.6	"								
4-Chloroaniline	ND	62.6	"								
4-Chlorophenyl phenyl ether	ND	62.6	"								
4-Nitroaniline	ND	125	"								
4-Nitrophenol	ND	125	"								
Acenaphthene	ND	62.6	"								
Acenaphthylene	ND	62.6	"								
Acetophenone	ND	62.6	"								
Aniline	ND	250	"								
Anthracene	ND	62.6	"								
Atrazine	ND	62.6	"								
Benzaldehyde	ND	62.6	"								
Benzidine	ND	250	"								
Benzo(a)anthracene	ND	62.6	"								
Benzo(a)pyrene	ND	62.6	"								
Benzo(b)fluoranthene	ND	62.6	"								
Benzo(g,h,i)perylene	ND	62.6	"								
Benzo(k)fluoranthene	ND	62.6	"								
Benzoic acid	ND	62.6	"								
Benzyl alcohol	ND	62.6	"								
Benzyl butyl phthalate	ND	62.6	"								
Bis(2-chloroethoxy)methane	ND	62.6	"								
Bis(2-chloroethyl)ether	ND	62.6	"								
Bis(2-chloroisopropyl)ether	ND	62.6	"								
Bis(2-ethylhexyl)phthalate	55.5	62.6	"								



Semivolatile Organic Compounds by GC/MS - 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 BJ50817 - EPA 3546 SVOA

Blank (BJ50817-BLK1)

Prepared & Analyzed: 10/16/2015

Caprolactam	ND	125	ug/kg wet								
Carbazole	ND	62.6	"								
Chrysene	ND	62.6	"								
Dibenzo(a,h)anthracene	ND	62.6	"								
Dibenzofuran	ND	62.6	"								
Diethyl phthalate	ND	62.6	"								
Dimethyl phthalate	ND	62.6	"								
Di-n-butyl phthalate	ND	62.6	"								
Di-n-octyl phthalate	ND	62.6	"								
Fluoranthene	ND	62.6	"								
Fluorene	ND	62.6	"								
Hexachlorobenzene	ND	62.6	"								
Hexachlorobutadiene	ND	62.6	"								
Hexachlorocyclopentadiene	ND	62.6	"								
Hexachloroethane	ND	62.6	"								
Indeno(1,2,3-cd)pyrene	ND	62.6	"								
Isophorone	ND	62.6	"								
Naphthalene	ND	62.6	"								
Nitrobenzene	ND	62.6	"								
N-Nitrosodimethylamine	ND	62.6	"								
N-nitroso-di-n-propylamine	ND	62.6	"								
N-Nitrosodiphenylamine	ND	62.6	"								
Pentachlorophenol	ND	62.6	"								
Phenanthrene	ND	62.6	"								
Phenol	ND	62.6	"								
Pyrene	ND	62.6	"								
Surrogate: 2-Fluorophenol	1020		"	3760		27.1	10-95				
Surrogate: Phenol-d5	1140		"	3750		30.4	10-107				
Surrogate: Nitrobenzene-d5	692		"	2510		27.6	10-95				
Surrogate: 2-Fluorobiphenyl	754		"	2500		30.2	10-97				
Surrogate: 2,4,6-Tribromophenol	614		"	3760		16.3	10-103				
Surrogate: Terphenyl-d14	711		"	2510		28.3	19-99				



Semivolatile Organic Compounds by GC/MS - 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 BJ50817 - EPA 3546 SVOA

LCS (BJ50817-BS1)

Prepared & Analyzed: 10/16/2015

1,1'-Biphenyl	987	62.6	ug/kg wet				22-103				
1,2,4,5-Tetrachlorobenzene	1420	125	"				10-144				
1,2,4-Trichlorobenzene	1330	62.6	"				23-130				
1,2-Dichlorobenzene	1240	62.6	"				26-113				
1,2-Diphenylhydrazine (as Azobenzene)	1340	62.6	"				10-140				
1,3-Dichlorobenzene	1330	62.6	"				32-113				
1,4-Dichlorobenzene	1260	62.6	"				28-111				
2,3,4,6-Tetrachlorophenol	2160	125	"				30-130				
2,4,5-Trichlorophenol	1300	62.6	"				14-138				
2,4,6-Trichlorophenol	1480	62.6	"				27-122				
2,4-Dichlorophenol	1500	62.6	"				23-133				
2,4-Dimethylphenol	1340	62.6	"				15-131				
2,4-Dinitrophenol	696	125	"				10-149				
2,4-Dinitrotoluene	1880	62.6	"				30-123				
2,6-Dinitrotoluene	1930	62.6	"				30-125				
2-Chloronaphthalene	1350	62.6	"				22-115				
2-Chlorophenol	1460	62.6	"				25-121				
2-Methylnaphthalene	1280	62.6	"				16-127				
2-Methylphenol	1300	62.6	"				10-146				
2-Nitroaniline	1740	125	"				24-126				
2-Nitrophenol	1330	62.6	"				17-129				
3- & 4-Methylphenols	1250	62.6	"				20-109				
3,3'-Dichlorobenzidine	2280	62.6	"				10-147				
3-Nitroaniline	1850	125	"				23-123				
4,6-Dinitro-2-methylphenol	829	125	"				10-149				
4-Bromophenyl phenyl ether	1230	62.6	"				30-138				
4-Chloro-3-methylphenol	1530	62.6	"				16-138				
4-Chloroaniline	1810	62.6	"				10-117				
4-Chlorophenyl phenyl ether	1230	62.6	"				18-132				
4-Nitroaniline	1400	125	"				14-125				
4-Nitrophenol	1170	125	"				10-136				
Acenaphthene	1270	62.6	"				17-124				
Acenaphthylene	1290	62.6	"				16-124				
Acetophenone	1180	62.6	"				28-105				
Aniline	1390	250	"				10-111				
Anthracene	1300	62.6	"				24-124				
Atrazine	1200	62.6	"				22-120				
Benzaldehyde	1140	62.6	"				21-100				
Benzo(a)anthracene	1770	62.6	"				25-134				
Benzo(a)pyrene	2650	62.6	"				29-144				
Benzo(b)fluoranthene	2550	62.6	"				20-151				
Benzo(g,h,i)perylene	1770	62.6	"				10-153				
Benzo(k)fluoranthene	2150	62.6	"				10-148				
Benzoic acid	388	62.6	"				10-116				
Benzyl alcohol	1370	62.6	"				17-128				
Benzyl butyl phthalate	2270	62.6	"				10-132				
Bis(2-chloroethoxy)methane	1400	62.6	"				10-129				
Bis(2-chloroethyl)ether	1560	62.6	"				14-125				
Bis(2-chloroisopropyl)ether	1750	62.6	"				14-122				
Bis(2-ethylhexyl)phthalate	1610	62.6	"				10-141				
Caprolactam	1200	125	"				10-123				



Semivolatile Organic Compounds by GC/MS - 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 BJ50817 - EPA 3546 SVOA

LCS (BJ50817-BS1)

Prepared & Analyzed: 10/16/2015

Carbazole	1490	62.6	ug/kg wet				31-120				
Chrysene	2120	62.6	"				24-116				
Dibenzo(a,h)anthracene	1760	62.6	"				17-147				
Dibenzofuran	1360	62.6	"				23-123				
Diethyl phthalate	1490	62.6	"				23-122				
Dimethyl phthalate	1630	62.6	"				28-127				
Di-n-butyl phthalate	1410	62.6	"				19-123				
Di-n-octyl phthalate	2470	62.6	"				10-132				
Fluoranthene	1310	62.6	"				36-125				
Fluorene	1300	62.6	"				16-130				
Hexachlorobenzene	1260	62.6	"				10-129				
Hexachlorobutadiene	1240	62.6	"				22-153				
Hexachlorocyclopentadiene	314	62.6	"				10-134				
Hexachloroethane	1290	62.6	"				20-112				
Indeno(1,2,3-cd)pyrene	1760	62.6	"				10-155				
Isophorone	1510	62.6	"				14-131				
Naphthalene	1270	62.6	"				20-121				
Nitrobenzene	1450	62.6	"				20-121				
N-Nitrosodimethylamine	1690	62.6	"				10-124				
N-nitroso-di-n-propylamine	1280	62.6	"				21-119				
N-Nitrosodiphenylamine	1350	62.6	"				10-163				
Pentachlorophenol	998	62.6	"				10-143				
Phenanthrene	1320	62.6	"				24-123				
Phenol	1340	62.6	"				15-123				
Pyrene	1980	62.6	"				24-132				
<i>Surrogate: 2-Fluorophenol</i>	<i>1590</i>		<i>"</i>	<i>3760</i>		<i>42.3</i>	<i>10-95</i>				
<i>Surrogate: Phenol-d5</i>	<i>1460</i>		<i>"</i>	<i>3750</i>		<i>38.9</i>	<i>10-107</i>				
<i>Surrogate: Nitrobenzene-d5</i>	<i>1040</i>		<i>"</i>	<i>2510</i>		<i>41.6</i>	<i>10-95</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>810</i>		<i>"</i>	<i>2500</i>		<i>32.4</i>	<i>10-97</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1200</i>		<i>"</i>	<i>3760</i>		<i>32.0</i>	<i>30-130</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>1450</i>		<i>"</i>	<i>2510</i>		<i>57.6</i>	<i>19-99</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50817 - EPA 3546 SVOA											
LCS Dup (BJ50817-BSD1)											
Prepared & Analyzed: 10/16/2015											
1,1'-Biphenyl	955	62.6	ug/kg wet				22-103		3.30	30	
1,2,4,5-Tetrachlorobenzene	1400	125	"				10-144		1.10	30	
1,2,4-Trichlorobenzene	1340	62.6	"				23-130		0.750	30	
1,2-Dichlorobenzene	1240	62.6	"				26-113		0.363	30	
1,2-Diphenylhydrazine (as Azobenzene)	1370	62.6	"				10-140		2.36	30	
1,3-Dichlorobenzene	1280	62.6	"				32-113		3.57	30	
1,4-Dichlorobenzene	1240	62.6	"				28-111		1.04	30	
2,3,4,6-Tetrachlorophenol	2050	125	"				30-130		5.39	30	
2,4,5-Trichlorophenol	1250	62.6	"				14-138		4.43	30	
2,4,6-Trichlorophenol	1450	62.6	"				27-122		2.28	30	
2,4-Dichlorophenol	1460	62.6	"				23-133		2.46	30	
2,4-Dimethylphenol	1320	62.6	"				15-131		1.39	30	
2,4-Dinitrophenol	474	125	"				10-149		37.9	30	Non-dir.
2,4-Dinitrotoluene	1820	62.6	"				30-123		3.67	30	
2,6-Dinitrotoluene	1830	62.6	"				30-125		5.20	30	
2-Chloronaphthalene	1360	62.6	"				22-115		1.22	30	
2-Chlorophenol	1340	62.6	"				25-121		8.55	30	
2-Methylnaphthalene	1240	62.6	"				16-127		3.37	30	
2-Methylphenol	1280	62.6	"				10-146		2.06	30	
2-Nitroaniline	1640	125	"				24-126		6.07	30	
2-Nitrophenol	1310	62.6	"				17-129		1.74	30	
3- & 4-Methylphenols	1200	62.6	"				20-109		4.10	30	
3,3'-Dichlorobenzidine	2070	62.6	"				10-147		9.66	30	
3-Nitroaniline	1780	125	"				23-123		3.95	30	
4,6-Dinitro-2-methylphenol	817	125	"				10-149		1.46	30	
4-Bromophenyl phenyl ether	1240	62.6	"				30-138		1.30	30	
4-Chloro-3-methylphenol	1450	62.6	"				16-138		5.74	30	
4-Chloroaniline	1700	62.6	"				10-117		6.28	30	
4-Chlorophenyl phenyl ether	1250	62.6	"				18-132		1.57	30	
4-Nitroaniline	1360	125	"				14-125		3.37	30	
4-Nitrophenol	334	125	"				10-136		111	30	Non-dir.
Acenaphthene	1260	62.6	"				17-124		0.672	30	
Acenaphthylene	1290	62.6	"				16-124		0.00	30	
Acetophenone	1050	62.6	"				28-105		11.3	30	
Aniline	1110	250	"				10-111		23.0	30	
Anthracene	1320	62.6	"				24-124		0.993	30	
Atrazine	1090	62.6	"				22-120		9.93	30	
Benzaldehyde	1060	62.6	"				21-100		7.20	30	
Benzo(a)anthracene	1590	62.6	"				25-134		10.9	30	
Benzo(a)pyrene	2080	62.6	"				29-144		24.3	30	
Benzo(b)fluoranthene	3900	62.6	"				20-151		41.6	30	Non-dir.
Benzo(g,h,i)perylene	1620	62.6	"				10-153		9.36	30	
Benzo(k)fluoranthene	3530	62.6	"				10-148		48.4	30	Non-dir.
Benzoic acid	140	62.6	"				10-116		94.0	30	Non-dir.
Benzyl alcohol	1310	62.6	"				17-128		4.24	30	
Benzyl butyl phthalate	2150	62.6	"				10-132		5.42	30	
Bis(2-chloroethoxy)methane	1380	62.6	"				10-129		1.62	30	
Bis(2-chloroethyl)ether	1430	62.6	"				14-125		8.74	30	
Bis(2-chloroisopropyl)ether	1660	62.6	"				14-122		5.21	30	
Bis(2-ethylhexyl)phthalate	1410	62.6	"				10-141		13.2	30	
Caprolactam	966	125	"				10-123		21.3	30	



Semivolatile Organic Compounds by GC/MS - 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 BJ50817 - EPA 3546 SVOA

LCS Dup (BJ50817-BSD1)

Prepared & Analyzed: 10/16/2015

Carbazole	1530	62.6	ug/kg wet				31-120		2.42	30	
Chrysene	1760	62.6	"				24-116		19.0	30	
Dibenzo(a,h)anthracene	1470	62.6	"				17-147		17.8	30	
Dibenzofuran	1350	62.6	"				23-123		0.148	30	
Diethyl phthalate	1490	62.6	"				23-122		0.302	30	
Dimethyl phthalate	1590	62.6	"				28-127		2.61	30	
Di-n-butyl phthalate	1490	62.6	"				19-123		5.41	30	
Di-n-octyl phthalate	2190	62.6	"				10-132		11.9	30	
Fluoranthene	1460	62.6	"				36-125		11.0	30	
Fluorene	1320	62.6	"				16-130		1.42	30	
Hexachlorobenzene	1190	62.6	"				10-129		5.26	30	
Hexachlorobutadiene	1160	62.6	"				22-153		6.60	30	
Hexachlorocyclopentadiene	342	62.6	"				10-134		8.84	30	
Hexachloroethane	1250	62.6	"				20-112		2.95	30	
Indeno(1,2,3-cd)pyrene	814	62.6	"				10-155		73.6	30	Non-dir.
Isophorone	1460	62.6	"				14-131		3.77	30	
Naphthalene	1260	62.6	"				20-121		0.672	30	
Nitrobenzene	1380	62.6	"				20-121		4.49	30	
N-Nitrosodimethylamine	1630	62.6	"				10-124		3.88	30	
N-nitroso-di-n-propylamine	1250	62.6	"				21-119		2.21	30	
N-Nitrosodiphenylamine	1390	62.6	"				10-163		2.86	30	
Pentachlorophenol	878	62.6	"				10-143		12.7	30	
Phenanthrene	1350	62.6	"				24-123		1.95	30	
Phenol	1300	62.6	"				15-123		3.19	30	
Pyrene	1940	62.6	"				24-132		2.11	30	
<i>Surrogate: 2-Fluorophenol</i>	<i>1470</i>		<i>"</i>	<i>3760</i>		<i>39.1</i>	<i>10-95</i>				
<i>Surrogate: Phenol-d5</i>	<i>1260</i>		<i>"</i>	<i>3750</i>		<i>33.7</i>	<i>10-107</i>				
<i>Surrogate: Nitrobenzene-d5</i>	<i>915</i>		<i>"</i>	<i>2510</i>		<i>36.5</i>	<i>10-95</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>783</i>		<i>"</i>	<i>2500</i>		<i>31.3</i>	<i>10-97</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1020</i>		<i>"</i>	<i>3760</i>		<i>27.1</i>	<i>30-130</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>1340</i>		<i>"</i>	<i>2510</i>		<i>53.4</i>	<i>19-99</i>				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

Batch BJ50858 - EPA 3550C

Blank (BJ50858-BLK1)

Prepared: 10/16/2015 Analyzed: 10/19/2015

4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
beta-BHC	ND	0.330	"								
Chlordane, total	ND	1.32	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
Endrin aldehyde	ND	0.330	"								
Endrin ketone	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
Heptachlor	ND	0.330	"								
Heptachlor epoxide	ND	0.330	"								
Methoxychlor	ND	1.65	"								
Toxaphene	ND	16.7	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	55.1		"	67.0		82.2		30-140			
<i>Surrogate: Decachlorobiphenyl</i>	56.8		"	69.0		82.4		30-140			

LCS (BJ50858-BS1)

Prepared: 10/16/2015 Analyzed: 10/19/2015

4,4'-DDD	39.7	0.330	ug/kg wet	33.3		119		40-140			
4,4'-DDE	36.1	0.330	"	33.3		108		40-140			
4,4'-DDT	39.1	0.330	"	33.3		117		40-140			
Aldrin	35.5	0.330	"	33.3		107		40-140			
alpha-BHC	39.5	0.330	"	33.3		119		40-140			
beta-BHC	36.2	0.330	"	33.3		109		40-140			
delta-BHC	41.8	0.330	"	33.3		125		40-140			
Dieldrin	38.0	0.330	"	33.3		114		40-140			
Endosulfan I	36.7	0.330	"	33.3		110		40-140			
Endosulfan II	36.4	0.330	"	33.3		109		40-140			
Endosulfan sulfate	36.0	0.330	"	33.3		108		40-140			
Endrin	38.4	0.330	"	33.3		115		40-140			
Endrin aldehyde	33.7	0.330	"	33.3		101		40-140			
Endrin ketone	37.3	0.330	"	33.3		112		40-140			
gamma-BHC (Lindane)	38.2	0.330	"	33.3		115		40-140			
Heptachlor	33.5	0.330	"	33.3		100		40-140			
Heptachlor epoxide	34.5	0.330	"	33.3		103		40-140			
Methoxychlor	39.1	1.65	"	33.3		117		40-140			
<i>Surrogate: Tetrachloro-m-xylene</i>	59.8		"	67.0		89.3		30-140			
<i>Surrogate: Decachlorobiphenyl</i>	63.6		"	69.0		92.2		30-140			



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit
Batch BJ50858 - EPA 3550C											
LCS Dup (BJ50858-BSD1)										Prepared: 10/16/2015 Analyzed: 10/19/2015	
4,4'-DDD	38.1	0.330	ug/kg wet	33.3		114		40-140		4.22	30
4,4'-DDE	34.4	0.330	"	33.3		103		40-140		4.80	30
4,4'-DDT	36.9	0.330	"	33.3		111		40-140		5.84	30
Aldrin	34.2	0.330	"	33.3		102		40-140		3.94	30
alpha-BHC	39.0	0.330	"	33.3		117		40-140		1.31	30
beta-BHC	34.9	0.330	"	33.3		105		40-140		3.59	30
delta-BHC	39.2	0.330	"	33.3		118		40-140		6.32	30
Dieldrin	36.4	0.330	"	33.3		109		40-140		4.17	30
Endosulfan I	35.0	0.330	"	33.3		105		40-140		4.53	30
Endosulfan II	34.8	0.330	"	33.3		104		40-140		4.53	30
Endosulfan sulfate	34.1	0.330	"	33.3		102		40-140		5.43	30
Endrin	36.9	0.330	"	33.3		111		40-140		4.05	30
Endrin aldehyde	32.1	0.330	"	33.3		96.3		40-140		4.71	30
Endrin ketone	35.1	0.330	"	33.3		105		40-140		6.23	30
gamma-BHC (Lindane)	36.9	0.330	"	33.3		111		40-140		3.51	30
Heptachlor	32.3	0.330	"	33.3		96.8		40-140		3.72	30
Heptachlor epoxide	33.2	0.330	"	33.3		99.6		40-140		3.81	30
Methoxychlor	36.4	1.65	"	33.3		109		40-140		6.92	30
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>57.6</i>		<i>"</i>	<i>67.0</i>		<i>86.0</i>		<i>30-140</i>			
<i>Surrogate: Decachlorobiphenyl</i>	<i>57.8</i>		<i>"</i>	<i>69.0</i>		<i>83.7</i>		<i>30-140</i>			



Polychlorinated Biphenyls by GC/ECD - 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 BJ50858 - EPA 3550C

Blank (BJ50858-BLK1)

Prepared: 10/16/2015 Analyzed: 10/19/2015

Aroclor 1016	ND	0.0167	mg/kg wet										
Aroclor 1221	ND	0.0167	"										
Aroclor 1232	ND	0.0167	"										
Aroclor 1242	ND	0.0167	"										
Aroclor 1248	ND	0.0167	"										
Aroclor 1254	ND	0.0167	"										
Aroclor 1260	ND	0.0167	"										
Total PCBs	ND	0.0167	"										

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0740		"	0.0670	110	30-140							
<i>Surrogate: Decachlorobiphenyl</i>	0.0710		"	0.0690	103	30-140							

LCS (BJ50858-BS2)

Prepared: 10/16/2015 Analyzed: 10/19/2015

Aroclor 1016	0.420	0.0167	mg/kg wet	0.333	126	40-130							
Aroclor 1260	0.419	0.0167	"	0.333	126	40-130							
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0770		"	0.0670	115	30-140							
<i>Surrogate: Decachlorobiphenyl</i>	0.0703		"	0.0690	102	30-140							



Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50898 - EPA 3550B/8151A											
Blank (BJ50898-BLK1)										Prepared & Analyzed: 10/19/2015	
2,4,5-T	ND	20.0	ug/kg wet								
2,4,5-TP (Silvex)	ND	20.0	"								
2,4-D	ND	20.0	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	478		"	500		95.6	30-150				
LCS (BJ50898-BS1)										Prepared & Analyzed: 10/19/2015	
2,4,5-T	119	20.0	ug/kg wet	160		74.4	40-140				
2,4,5-TP (Silvex)	99.0	20.0	"	160		61.9	40-140				
2,4-D	120	20.0	"	160		75.0	40-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	397		"	500		79.4	30-150				
LCS Dup (BJ50898-BSD1)										Prepared & Analyzed: 10/19/2015	
2,4,5-T	126	20.0	ug/kg wet	160		78.8	40-140		5.71	30	
2,4,5-TP (Silvex)	107	20.0	"	160		66.9	40-140		7.77	30	
2,4-D	127	20.0	"	160		79.4	40-140		5.67	30	
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	402		"	500		80.4	30-150				



Metals by ICP - 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 BJ50704 - EPA 3050B

Blank (BJ50704-BLK1)

Prepared & Analyzed: 10/14/2015

Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.300	"								
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	0.500	"								
Nickel	ND	0.500	"								
Potassium	ND	5.00	"								
Selenium	ND	1.00	"								
Silver	ND	0.500	"								
Sodium	ND	10.0	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.00	"								

Reference (BJ50704-SRM1)

Prepared & Analyzed: 10/14/2015

Aluminum	7000	5.00	mg/kg wet	8100		86.5	39.6-160.5				
Antimony	103	0.500	"	116		88.8	55.7-252.6				
Arsenic	115	1.00	"	122		93.9	70-145.1				
Barium	165	1.00	"	167		99.1	73.1-126.9				
Beryllium	53.8	0.100	"	54.3		99.0	73.1-127.1				
Cadmium	85.0	0.300	"	88.0		96.6	73.3-127.3				
Calcium	5790	5.00	"	5920		97.7	73.6-126.4				
Chromium	101	0.500	"	102		99.4	69.4-130.4				
Cobalt	101	0.500	"	99.4		101	74.3-125.8				
Copper	82.7	0.500	"	78.0		106	73.7-132.1				
Iron	15500	2.00	"	15100		103	37.1-162.9				
Lead	90.1	0.300	"	94.5		95.3	70.5-129				
Magnesium	2850	5.00	"	3020		94.3	65.9-133.8				
Manganese	398	0.500	"	401		99.3	76.1-132.9				
Nickel	61.5	0.500	"	56.3		109	69.8-130				
Potassium	2240	5.00	"	2490		89.8	60.6-139.4				
Selenium	149	1.00	"	157		94.9	67.5-131.8				
Silver	30.7	0.500	"	34.2		89.7	65.5-134.2				
Sodium	658	10.0	"	246		267	32-170	High Bias			
Thallium	105	1.00	"	116		90.5	67.4-132.7				
Vanadium	66.1	1.00	"	67.1		98.5	57.8-192.3				
Zinc	204	1.00	"	207		98.7	70-130.4				



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
Batch BJ50832 - EPA 7473 soil											
Blank (BJ50832-BLK1)										Prepared & Analyzed: 10/16/2015	
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BJ50832-DUP1)										*Source sample: 15J0508-01 (SB07_0-2) Prepared & Analyzed: 10/16/2015	
Mercury	ND	0.0327	mg/kg dry		ND						35
Matrix Spike (BJ50832-MS1)										*Source sample: 15J0508-01 (SB07_0-2) Prepared & Analyzed: 10/16/2015	
Mercury	0.430		mg/kg	0.500	0.0221	81.5	75-125				
Reference (BJ50832-SRM1)										Prepared & Analyzed: 10/16/2015	
Mercury	4.9515		mg/kg	5.76		86.0	71.2-129				



Miscellaneous Physical Parameters - 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 BJ50655 - Analysis Preparation

Duplicate (BJ50655-DUP1)	*Source sample: 15J0508-12 (SB02_18-20)					Prepared & Analyzed: 10/13/2015					
ORP (Oxidation-Reduction Potential) (Ag/AgCl)	430	-200	mV		440				1.15	30	

Batch BJ50701 - % Solids Prep

Duplicate (BJ50701-DUP1)	*Source sample: 15J0508-04 (SB03_16-17)					Prepared & Analyzed: 10/14/2015					
% Solids	93.5	0.100	%		95.2				1.77	20	

Batch BJ50703 - % Solids Prep

Duplicate (BJ50703-DUP1)	*Source sample: 15J0508-12 (SB02_18-20)					Prepared & Analyzed: 10/14/2015					
% Solids	96.4	0.100	%		95.8				0.628	20	



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ50656 - Analysis Preparation											
Duplicate (BJ50656-DUP1)	*Source sample: 15J0508-12 (SB02_18-20)						Prepared & Analyzed: 10/13/2015				
pH	6.28	0.500	pH units		6.25				0.479	10	
Batch BJ50889 - EPA SW846-3060											
Blank (BJ50889-BLK1)							Prepared & Analyzed: 10/17/2015				
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BJ50889-DUP1)	*Source sample: 15J0508-01 (SB07_0-2)						Prepared & Analyzed: 10/17/2015				
Chromium, Hexavalent	ND	0.545	mg/kg dry		ND					35	
Matrix Spike (BJ50889-MS1)	*Source sample: 15J0508-01 (SB07_0-2)						Prepared & Analyzed: 10/17/2015				
Chromium, Hexavalent	19.7	0.545	mg/kg dry	21.8	ND	90.6	75-125				
Reference (BJ50889-SRM1)							Prepared & Analyzed: 10/17/2015				
Chromium, Hexavalent	75.0		mg/L	97.4		77.0	26.6-178				
Batch BJ50913 - Analysis Preparation Soil											
Blank (BJ50913-BLK1)							Prepared & Analyzed: 10/19/2015				
Cyanide, total	ND	0.500	mg/kg wet								
Reference (BJ50913-SRM1)							Prepared & Analyzed: 10/19/2015				
Cyanide, total	66.5		ug/mL	59.3		112	38.4-202				
Batch BJ50979 - Analysis Preparation Soil											
Blank (BJ50979-BLK1)							Prepared & Analyzed: 10/20/2015				
Cyanide, total	ND	0.500	mg/kg wet								



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag	
Batch BJ50979 - Analysis Preparation Soil												
Duplicate (BJ50979-DUP1)		*Source sample: 15J0508-11 (SB02_0-2)						Prepared & Analyzed: 10/20/2015				
Cyanide, total	ND	0.536	mg/kg dry		ND						15	
Matrix Spike (BJ50979-MS1)		*Source sample: 15J0508-11 (SB02_0-2)						Prepared & Analyzed: 10/20/2015				
Cyanide, total	8.69	0.536	mg/kg dry	10.7	ND	81.0	79.6-107					
Reference (BJ50979-SRM1)								Prepared & Analyzed: 10/20/2015				
Cyanide, total	71.5		ug/mL	59.3		121	38.4-202					



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
15J0508-01	SB07_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0508-02	SB07_17-19	40mL Vial with Stir Bar-Cool 4° C
15J0508-03	SB03_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0508-04	SB03_16-17	40mL Vial with Stir Bar-Cool 4° C
15J0508-05	SB06_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0508-06	SB06_17-19	40mL Vial with Stir Bar-Cool 4° C
15J0508-07	SB10_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0508-08	SB10_12-14	40mL Vial with Stir Bar-Cool 4° C
15J0508-09	SB10_17-19	40mL Vial with Stir Bar-Cool 4° C
15J0508-10	DUP01_101315	40mL Vial with Stir Bar-Cool 4° C
15J0508-11	SB02_0-2	40mL Vial with Stir Bar-Cool 4° C
15J0508-12	SB02_18-20	40mL Vial with Stir Bar-Cool 4° C
15J0508-13	SOTB02_101315	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
S-08	The recovery of this surrogate was outside of QC limits.
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/LOD) or in the case of a TIC, the result is an estimated concentration.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
IS-06	Internal standard perylene-d12 did not meet acceptance criteria. The sample was reanalyzed to confirm matrix interference. Compounds affected are: Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene.
ICV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



YORK
ANALYTICAL LABORATORIES INC

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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. 15J0506

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <u>Layton</u>		Company: <u>SAHC</u>		Company: <u>SAHC</u>		<u>170370001</u>		RUSH - Same Day <input type="checkbox"/>		Summary Report <input type="checkbox"/>	
Address: <u>30 W. 5th St</u>		Address: _____		Address: _____		Purchase Order No. _____		RUSH - Next Day <input type="checkbox"/>		Summary w/ QA Summary <input type="checkbox"/>	
Phone No. <u>212-479-5900</u>		Phone No. _____		Phone No. _____		Standard(5-7 Days) <input checked="" type="checkbox"/>		RUSH - Two Day <input type="checkbox"/>		CT RCP Package <input type="checkbox"/>	
Contact Person: <u>P. Fernham</u>		Attention: <u>Gerry Nichols</u>		Attention: _____		Samples from: CT <input checked="" type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>		RUSH - Three Day <input type="checkbox"/>		CTRCP DQA/DUE Pkg <input type="checkbox"/>	
E-Mail Address: <u>pfarnham@layton.com</u>		E-Mail Address: <u>gnichols@layton.com</u>		E-Mail Address: _____				RUSH - Four Day <input type="checkbox"/>		NY ASP A Package <input checked="" type="checkbox"/>	
										NJDEP B Package <input type="checkbox"/>	
										NJDEP Red. Deliv. <input type="checkbox"/>	
										<u>Electronic Data Deliverables (EDD)</u>	

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.

[Signature]
Samples Collected/Authorized By (Signature)
R. Tishera
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri. Poll.	Corrosivity
624 Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list 524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxin/Furans	BTU/lb.
Arom. only 502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog. only NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App. IX list SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list	SPLP or TCLP	608 PCB	Helium	TAGM		Sludge

Simple Excel _____
 NYSDEC EQuIS _____
 EQuIS (std) _____
 EZ-EDD (EQuIS) _____
 NJDEP SRP HazSite EDD _____
 GIS/KEY (std) _____
 Other PDF/Excel _____
 York Regulatory Comparison _____
 Excel Spreadsheet _____
 Compare to the following Regs. (please fill in):

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SB07-0-2	10/13/15 7:45	S	TCL/TAL VOC, SVOCs, PCB, Pest, Herb, Cyanide, Tri/Hex Chloro, Metals	
SB07-17-19	8:00			
SB03-0-2	8:15			
SB03-16-17	8:30			
SB06-0-2	10:55			
SB06-17-19	11:10			
SB10-0-2	11:30			
SB10-12-14	11:45			
SB10-17-19	11:55			
UP01-10/13/15	11:11			

Comments Preservation <input type="checkbox"/> 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Check those Applicable <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other _____ Special Instructions _____ Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	<u>[Signature]</u> 10/13/15 Samples Relinquished By _____ Date/Time _____ Samples Relinquished By _____ Date/Time _____	<u>[Signature]</u> 10/13/15 2:38 PM Samples Received By _____ Date/Time _____ <u>[Signature]</u> 10/13/15 1755 Samples Received in LAB by _____ Date/Time _____	Temperature _____ Receipt _____ <u>3.7 °C</u>
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Page 175 of 176



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Field Chain-of-Custody Record

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York Project No. 15J0508

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <u>Lagan</u>		Company: <u>SANE</u>		Company: <u>SAMC</u>		<u>170770001</u>		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"/>		Summary Report _____ Summary w/ QA Summary _____ CT RCP Package _____ CTRCP DQA/DUE Pkg _____ NY ASP A Package <input checked="" type="checkbox"/> NY ASP B Package _____ NJDEP Red. Deliv. _____	
Address: <u>360 W 71st St</u> <u>NY, NY</u>		Address: _____		Address: _____		Purchase Order No. _____		Standard(5-7 Days) <input checked="" type="checkbox"/>		Electronic Data Deliverables (EDD) Simple Excel _____ NYSDEC EQulS _____ EQulS (std) _____ EZ-EDD (EQulS) _____ NJDEP SRP HazSite EDD _____ GIS/KEY (std) _____ Other <u>Excel / PDF</u>	
Phone No. <u>212-479-5700</u>		Phone No. _____		Phone No. _____		Samples from: CT ___ NY ___ NJ ___					
Contact Person: <u>P. Farnham</u>		Attention: <u>Gerald Nichols</u>		Attention: _____							
E-Mail Address: <u>pfarnham@lagan.com</u>		E-Mail Address: <u>gnichols@lagan.com</u>		E-Mail Address: _____							

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.

[Signature]
Samples Collected/Authorized By (Signature)
Rebecca Tisherman
Name (printed)

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full TICs	8270 or 625 STARS list	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624 Site Spec.	BN Only	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list Nassau Co.	Acids Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX Suffolk Co.	PAH list	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE Ketones	TAGM list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list 524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxin/Furan Full List	BTU/lb.
Arom. only 502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog. only NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App. IX list SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list	SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
<u>SB02-02</u>	<u>10/13/15 12:45</u>	<u>S</u>	<u>TCL/FINAL VOC, SVOC, Metals, PCB, Pest, Herb, Cyanide, Tr/Ace/Chrom</u>	
<u>SB02-1820</u>	<u>10/13/15 12:55</u>	<u>S</u>	<u>↓</u>	
<u>SB1502-10/13/15</u>			<u>VOC</u>	

Comments	Preservation	4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/>	Temperature on Receipt <u>3.7 °C</u>
	Check those Applicable	ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other <input type="checkbox"/>	
	Special Instructions		
	Field Filtered <input type="checkbox"/>	Samples Relinquished By <u>[Signature]</u> Date/Time <u>10/13/15</u>	Samples Received By <u>[Signature]</u> Date/Time <u>10/13/15 2:30pm</u>
	Lab to Filter <input type="checkbox"/>	Samples Relinquished By _____ Date/Time _____	Samples Received in LAB by <u>[Signature]</u> Date/Time <u>10/13/15 1755</u>

Page 176 of 176



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Gerald Nicholls

Report Date: 10/22/2015

Client Project ID: 170370001

York Project (SDG) No.: 15J0515

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/22/2015
Client Project ID: 170370001
York Project (SDG) No.: 15J0515

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

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 October 13, 2015 and listed below. The project was identified as your project: **170370001**.

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>
15J0515-01	SV02_101315	Soil Vapor	10/13/2015	10/13/2015
15J0515-02	SV04_101315	Soil Vapor	10/13/2015	10/13/2015
15J0515-03	SV05_101315	Soil Vapor	10/13/2015	10/13/2015
15J0515-04	AA01_101315	Outdoor Ambient Ai	10/13/2015	10/13/2015
15J0515-05	SV03_101315	Soil Vapor	10/13/2015	10/13/2015

General Notes for York Project (SDG) No.: 15J0515

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: 10/22/2015





Sample Information

Client Sample ID: SV02_101315

York Sample ID: 15J0515-01

<u>York Project (SDG) No.</u> 15J0515	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> October 13, 2015 3:00 pm	<u>Date Received</u> 10/13/2015
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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	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	7.5	7.5	10.955	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 10:33	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	6.0	6.0	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	7.5	7.5	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	8.4	8.4	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	6.0	6.0	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	4.4	4.4	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	4.3	4.3	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	8.1	8.1	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
95-63-6	1,2,4-Trimethylbenzene	11		ug/m ³	5.4	5.4	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	8.4	8.4	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	6.6	6.6	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	4.4	4.4	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	5.1	5.1	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	7.7	7.7	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	5.4	5.4	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
106-99-0	1,3-Butadiene	49		ug/m ³	14	14	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	6.6	6.6	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	5.1	5.1	10.955	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 10:33	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	6.6	6.6	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	7.9	7.9	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
78-93-3	2-Butanone	77		ug/m ³	3.2	3.2	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	9.0	9.0	10.955	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 10:33	ALD



Sample Information

Client Sample ID: SV02_101315

York Sample ID: 15J0515-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Soil Vapor

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	* 3-Chloropropene	ND		ug/m ³	17	17	10.955	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 10:33	ALD
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	4.5	4.5	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
67-64-1	Acetone	370		ug/m ³	5.2	5.2	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
107-13-1	* Acrylonitrile	32		ug/m ³	2.4	2.4	10.955	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 10:33	ALD
71-43-2	Benzene	16		ug/m ³	3.5	3.5	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	5.7	5.7	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	6.8	6.8	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-25-2	Bromoform	ND		ug/m ³	11	11	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
74-83-9	Bromomethane	ND		ug/m ³	4.3	4.3	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-15-0	Carbon disulfide	16		ug/m ³	3.4	3.4	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	1.7	1.7	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	5.0	5.0	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-00-3	Chloroethane	ND		ug/m ³	2.9	2.9	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
67-66-3	Chloroform	ND		ug/m ³	5.3	5.3	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
74-87-3	Chloromethane	ND		ug/m ³	2.3	2.3	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	4.3	4.3	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	5.0	5.0	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
110-82-7	Cyclohexane	ND		ug/m ³	3.8	3.8	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	8.8	8.8	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-71-8	Dichlorodifluoromethane	ND		ug/m ³	5.4	5.4	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	7.9	7.9	10.955	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 10:33	ALD
100-41-4	Ethyl Benzene	9.5		ug/m ³	4.8	4.8	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	12	12	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD



Sample Information

Client Sample ID: SV02_101315

York Sample ID: 15J0515-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Soil Vapor

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	Isopropanol	8.9		ug/m ³	5.4	5.4	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
80-62-6	Methyl Methacrylate	ND		ug/m ³	4.5	4.5	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	3.9	3.9	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-09-2	Methylene chloride	ND		ug/m ³	7.6	7.6	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
142-82-5	n-Heptane	ND		ug/m ³	4.5	4.5	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
110-54-3	n-Hexane	7.0		ug/m ³	3.9	3.9	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
95-47-6	o-Xylene	12		ug/m ³	4.8	4.8	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
179601-23-1	p- & m- Xylenes	32		ug/m ³	9.5	9.5	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
622-96-8	* p-Ethyltoluene	12		ug/m ³	5.4	5.4	10.955	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 10:33	ALD
115-07-1	* Propylene	ND		ug/m ³	1.9	1.9	10.955	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 10:33	ALD
100-42-5	Styrene	12		ug/m ³	4.7	4.7	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
127-18-4	Tetrachloroethylene	ND		ug/m ³	1.9	1.9	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
109-99-9	* Tetrahydrofuran	6.8		ug/m ³	6.5	6.5	10.955	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 10:33	ALD
108-88-3	Toluene	45		ug/m ³	4.1	4.1	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	4.3	4.3	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	5.0	5.0	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
79-01-6	Trichloroethylene	ND		ug/m ³	1.5	1.5	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m ³	6.2	6.2	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	3.9	3.9	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
593-60-2	Vinyl bromide	ND		ug/m ³	4.8	4.8	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
75-01-4	Vinyl Chloride	ND		ug/m ³	2.8	2.8	10.955	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 10:33	ALD
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: p-Bromofluorobenzene	89.0 %			72-118						



Sample Information

Client Sample ID: SV04_101315

York Sample ID: 15J0515-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Soil Vapor

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	2.8	2.8	4.114	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 11:25	ALD
71-55-6	1,1,1-Trichloroethane	4.3		ug/m ³	2.2	2.2	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	2.8	2.8	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	3.2	3.2	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	2.2	2.2	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	1.7	1.7	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	1.6	1.6	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	3.1	3.1	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
95-63-6	1,2,4-Trimethylbenzene	18		ug/m ³	2.0	2.0	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	3.2	3.2	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	2.5	2.5	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	1.7	1.7	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	1.9	1.9	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	2.9	2.9	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
108-67-8	1,3,5-Trimethylbenzene	5.1		ug/m ³	2.0	2.0	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	5.4	5.4	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	2.5	2.5	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	1.9	1.9	4.114	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 11:25	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	2.5	2.5	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	3.0	3.0	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
78-93-3	2-Butanone	8.3		ug/m ³	1.2	1.2	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
591-78-6	* 2-Hexanone	ND		ug/m ³	3.4	3.4	4.114	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 11:25	ALD
107-05-1	* 3-Chloropropene	ND		ug/m ³	6.4	6.4	4.114	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 11:25	ALD



Sample Information

Client Sample ID: SV04_101315

York Sample ID: 15J0515-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Soil Vapor

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/m ³	1.7	1.7	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
67-64-1	Acetone	130		ug/m ³	2.0	2.0	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
107-13-1	* Acrylonitrile	ND		ug/m ³	0.89	0.89	4.114	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 11:25	ALD
71-43-2	Benzene	1.8		ug/m ³	1.3	1.3	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	2.1	2.1	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	2.6	2.6	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-25-2	Bromoform	ND		ug/m ³	4.3	4.3	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
74-83-9	Bromomethane	ND		ug/m ³	1.6	1.6	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-15-0	Carbon disulfide	7.7		ug/m ³	1.3	1.3	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
56-23-5	Carbon tetrachloride	3.1		ug/m ³	0.65	0.65	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	1.9	1.9	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-00-3	Chloroethane	ND		ug/m ³	1.1	1.1	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
67-66-3	Chloroform	36		ug/m ³	2.0	2.0	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
74-87-3	Chloromethane	ND		ug/m ³	0.85	0.85	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	1.6	1.6	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	1.9	1.9	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
110-82-7	Cyclohexane	3.1		ug/m ³	1.4	1.4	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	3.3	3.3	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-71-8	Dichlorodifluoromethane	3.1		ug/m ³	2.0	2.0	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	3.0	3.0	4.114	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 11:25	ALD
100-41-4	Ethyl Benzene	6.8		ug/m ³	1.8	1.8	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	4.4	4.4	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
67-63-0	Isopropanol	16		ug/m ³	2.0	2.0	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD



Sample Information

Client Sample ID: SV04_101315

York Sample ID: 15J0515-02

<u>York Project (SDG) No.</u> 15J0515	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> October 13, 2015 3:00 pm	<u>Date Received</u> 10/13/2015
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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	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	1.7	1.7	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	1.5	1.5	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-09-2	Methylene chloride	4.3		ug/m ³	2.9	2.9	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
142-82-5	n-Heptane	3.2		ug/m ³	1.7	1.7	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
110-54-3	n-Hexane	3.5		ug/m ³	1.5	1.5	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
95-47-6	o-Xylene	12		ug/m ³	1.8	1.8	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
179601-23-1	p- & m- Xylenes	29		ug/m ³	3.6	3.6	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
622-96-8	* p-Ethyltoluene	14		ug/m ³	2.0	2.0	4.114	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 11:25	ALD
115-07-1	* Propylene	ND		ug/m ³	0.71	0.71	4.114	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 11:25	ALD
100-42-5	Styrene	15		ug/m ³	1.8	1.8	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
127-18-4	Tetrachloroethylene	78		ug/m ³	0.70	0.70	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
109-99-9	* Tetrahydrofuran	2.7		ug/m ³	2.4	2.4	4.114	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 11:25	ALD
108-88-3	Toluene	18		ug/m ³	1.6	1.6	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	1.6	1.6	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	1.9	1.9	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
79-01-6	Trichloroethylene	86		ug/m ³	0.55	0.55	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	3.9		ug/m ³	2.3	2.3	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	1.4	1.4	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
593-60-2	Vinyl bromide	ND		ug/m ³	1.8	1.8	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
75-01-4	Vinyl Chloride	ND		ug/m ³	1.1	1.1	4.114	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 11:25	ALD
	Surrogate Recoveries	Result		Acceptance Range							
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	89.1 %		72-118							



Sample Information

Client Sample ID: SV05_101315

York Sample ID: 15J0515-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Soil Vapor

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	2.9	2.9	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 12:17	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	2.3	2.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	2.9	2.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	3.3	3.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	2.3	2.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	3.2	3.2	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
95-63-6	1,2,4-Trimethylbenzene	22		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	3.3	3.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	2.6	2.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	2.0	2.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	3.0	3.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
108-67-8	1,3,5-Trimethylbenzene	6.3		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	5.6	5.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	2.6	2.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	2.0	2.0	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 12:17	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	2.6	2.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	3.1	3.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
78-93-3	2-Butanone	36		ug/m ³	1.3	1.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
591-78-6	* 2-Hexanone	14		ug/m ³	3.5	3.5	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 12:17	ALD
107-05-1	* 3-Chloropropene	ND		ug/m ³	6.7	6.7	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 12:17	ALD



Sample Information

Client Sample ID: SV05_101315

York Sample ID: 15J0515-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Soil Vapor

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	17		ug/m ³	1.8	1.8	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
67-64-1	Acetone	86		ug/m ³	2.0	2.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
107-13-1	* Acrylonitrile	ND		ug/m ³	0.93	0.93	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 12:17	ALD
71-43-2	Benzene	5.2		ug/m ³	1.4	1.4	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	2.2	2.2	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-27-4	Bromodichloromethane	3.7		ug/m ³	2.7	2.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-25-2	Bromoform	ND		ug/m ³	4.4	4.4	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
74-83-9	Bromomethane	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-15-0	Carbon disulfide	4.0		ug/m ³	1.3	1.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
56-23-5	Carbon tetrachloride	2.4		ug/m ³	0.67	0.67	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	2.0	2.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-00-3	Chloroethane	ND		ug/m ³	1.1	1.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
67-66-3	Chloroform	140		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
74-87-3	Chloromethane	ND		ug/m ³	0.89	0.89	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
110-82-7	Cyclohexane	2.8		ug/m ³	1.5	1.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	3.4	3.4	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-71-8	Dichlorodifluoromethane	2.5		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	3.1	3.1	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 12:17	ALD
100-41-4	Ethyl Benzene	11		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	4.6	4.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
67-63-0	Isopropanol	6.5		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD



Sample Information

Client Sample ID: SV05_101315

York Sample ID: 15J0515-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Soil Vapor

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	1.8	1.8	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	1.5	1.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-09-2	Methylene chloride	ND		ug/m ³	3.0	3.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
142-82-5	n-Heptane	9.1		ug/m ³	1.8	1.8	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
110-54-3	n-Hexane	9.7		ug/m ³	1.5	1.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
95-47-6	o-Xylene	18		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
179601-23-1	p- & m- Xylenes	44		ug/m ³	3.7	3.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
622-96-8	* p-Ethyltoluene	19		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
115-07-1	* Propylene	ND		ug/m ³	0.74	0.74	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
100-42-5	Styrene	24		ug/m ³	1.8	1.8	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
127-18-4	Tetrachloroethylene	150		ug/m ³	0.73	0.73	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
109-99-9	* Tetrahydrofuran	7.1		ug/m ³	2.5	2.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
108-88-3	Toluene	42		ug/m ³	1.6	1.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
79-01-6	Trichloroethylene	460		ug/m ³	0.58	0.58	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	7.2		ug/m ³	2.4	2.4	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	1.5	1.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
593-60-2	Vinyl bromide	ND		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD
75-01-4	Vinyl Chloride	ND		ug/m ³	1.1	1.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 12:17	ALD

Surrogate Recoveries	Result	Acceptance Range
460-00-4 <i>Surrogate: p-Bromofluorobenzene</i>	89.7 %	72-118



Sample Information

Client Sample ID: AA01_101315

York Sample ID: 15J0515-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Outdoor Ambient Air

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	0.84	0.84	1.221	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 00:22	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	0.67	0.67	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	0.84	0.84	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	0.94	0.94	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	0.67	0.67	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	0.49	0.49	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	0.48	0.48	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	0.91	0.91	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
95-63-6	1,2,4-Trimethylbenzene	0.96		ug/m ³	0.60	0.60	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	0.94	0.94	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	0.73	0.73	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	0.49	0.49	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	0.56	0.56	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	0.85	0.85	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m ³	0.60	0.60	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	1.6	1.6	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	0.73	0.73	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	0.56	0.56	1.221	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 00:22	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	0.73	0.73	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	0.88	0.88	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
78-93-3	2-Butanone	31		ug/m ³	0.36	0.36	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
591-78-6	* 2-Hexanone	26		ug/m ³	1.0	1.0	1.221	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 00:22	ALD
107-05-1	* 3-Chloropropene	ND		ug/m ³	1.9	1.9	1.221	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 00:22	ALD



Sample Information

Client Sample ID: AA01_101315

York Sample ID: 15J0515-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Outdoor Ambient Air

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	1.4		ug/m ³	0.50	0.50	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
67-64-1	Acetone	17		ug/m ³	2.2	2.2	4.58	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 09:41	ALD
107-13-1	* Acrylonitrile	ND		ug/m ³	0.26	0.26	1.221	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 00:22	ALD
71-43-2	Benzene	1.2		ug/m ³	0.39	0.39	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	0.63	0.63	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-27-4	Bromodichloromethane	ND		ug/m ³	0.76	0.76	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-25-2	Bromoform	ND		ug/m ³	1.3	1.3	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
74-83-9	Bromomethane	ND		ug/m ³	0.47	0.47	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-15-0	Carbon disulfide	ND		ug/m ³	0.38	0.38	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.19	0.19	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	0.56	0.56	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-00-3	Chloroethane	ND		ug/m ³	0.32	0.32	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
67-66-3	Chloroform	ND		ug/m ³	0.60	0.60	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
74-87-3	Chloromethane	2.1		ug/m ³	0.25	0.25	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	0.48	0.48	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	0.55	0.55	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
110-82-7	Cyclohexane	0.67		ug/m ³	0.42	0.42	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	0.98	0.98	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-71-8	Dichlorodifluoromethane	2.2		ug/m ³	0.60	0.60	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	0.88	0.88	1.221	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 00:22	ALD
100-41-4	Ethyl Benzene	0.85		ug/m ³	0.53	0.53	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	1.3	1.3	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
67-63-0	Isopropanol	6.7		ug/m ³	0.60	0.60	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD



Sample Information

Client Sample ID: AA01_101315

York Sample ID: 15J0515-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Outdoor Ambient Air

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	0.50	0.50	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	0.44	0.44	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-09-2	Methylene chloride	19		ug/m ³	0.85	0.85	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
142-82-5	n-Heptane	1.3		ug/m ³	0.50	0.50	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
110-54-3	n-Hexane	31		ug/m ³	0.43	0.43	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
95-47-6	o-Xylene	0.95		ug/m ³	0.53	0.53	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
179601-23-1	p- & m- Xylenes	2.5		ug/m ³	1.1	1.1	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
622-96-8	* p-Ethyltoluene	0.84		ug/m ³	0.60	0.60	1.221	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 00:22	ALD
115-07-1	* Propylene	ND		ug/m ³	0.21	0.21	1.221	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 00:22	ALD
100-42-5	Styrene	ND		ug/m ³	0.52	0.52	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
127-18-4	Tetrachloroethylene	3.2		ug/m ³	0.21	0.21	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
109-99-9	* Tetrahydrofuran	ND		ug/m ³	0.72	0.72	1.221	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 00:22	ALD
108-88-3	Toluene	3.8		ug/m ³	0.46	0.46	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	0.48	0.48	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	0.55	0.55	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
79-01-6	Trichloroethylene	ND		ug/m ³	0.16	0.16	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	5.0		ug/m ³	0.69	0.69	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	0.43	0.43	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
593-60-2	Vinyl bromide	ND		ug/m ³	0.53	0.53	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
75-01-4	Vinyl Chloride	ND		ug/m ³	0.31	0.31	1.221	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 00:22	ALD
	Surrogate Recoveries	Result			Acceptance Range						
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	88.8 %			72-118						



Sample Information

Client Sample ID: SV03_101315

York Sample ID: 15J0515-05

<u>York Project (SDG) No.</u> 15J0515	<u>Client Project ID</u> 170370001	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> October 13, 2015 3:00 pm	<u>Date Received</u> 10/13/2015
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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	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m ³	2.9	2.9	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 13:09	ALD
71-55-6	1,1,1-Trichloroethane	ND		ug/m ³	2.3	2.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m ³	2.9	2.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m ³	3.3	3.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
79-00-5	1,1,2-Trichloroethane	ND		ug/m ³	2.3	2.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-34-3	1,1-Dichloroethane	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-35-4	1,1-Dichloroethylene	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m ³	3.2	3.2	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
95-63-6	1,2,4-Trimethylbenzene	23		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
106-93-4	1,2-Dibromoethane	ND		ug/m ³	3.3	3.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
95-50-1	1,2-Dichlorobenzene	ND		ug/m ³	2.6	2.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
107-06-2	1,2-Dichloroethane	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
78-87-5	1,2-Dichloropropane	ND		ug/m ³	2.0	2.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m ³	3.0	3.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
108-67-8	1,3,5-Trimethylbenzene	6.7		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
106-99-0	1,3-Butadiene	ND		ug/m ³	5.6	5.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
541-73-1	1,3-Dichlorobenzene	ND		ug/m ³	2.6	2.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
142-28-9	* 1,3-Dichloropropane	ND		ug/m ³	2.0	2.0	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 13:09	ALD
106-46-7	1,4-Dichlorobenzene	ND		ug/m ³	2.6	2.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
123-91-1	1,4-Dioxane	ND		ug/m ³	3.1	3.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
78-93-3	2-Butanone	26		ug/m ³	1.3	1.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
591-78-6	* 2-Hexanone	11		ug/m ³	3.5	3.5	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 13:09	ALD
107-05-1	* 3-Chloropropene	ND		ug/m ³	6.7	6.7	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 13:09	ALD



Sample Information

Client Sample ID: SV03_101315

York Sample ID: 15J0515-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0515

170370001

Soil Vapor

October 13, 2015 3:00 pm

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	14		ug/m ³	1.8	1.8	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
67-64-1	Acetone	76		ug/m ³	2.0	2.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
107-13-1	* Acrylonitrile	ND		ug/m ³	0.93	0.93	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 13:09	ALD
71-43-2	Benzene	5.9		ug/m ³	1.4	1.4	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
100-44-7	Benzyl chloride	ND		ug/m ³	2.2	2.2	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-27-4	Bromodichloromethane	3.5		ug/m ³	2.7	2.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-25-2	Bromoform	ND		ug/m ³	4.4	4.4	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
74-83-9	Bromomethane	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-15-0	Carbon disulfide	9.1		ug/m ³	1.3	1.3	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
56-23-5	Carbon tetrachloride	ND		ug/m ³	0.67	0.67	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
108-90-7	Chlorobenzene	ND		ug/m ³	2.0	2.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-00-3	Chloroethane	ND		ug/m ³	1.1	1.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
67-66-3	Chloroform	130		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
74-87-3	Chloromethane	ND		ug/m ³	0.89	0.89	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
110-82-7	Cyclohexane	3.2		ug/m ³	1.5	1.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
124-48-1	Dibromochloromethane	ND		ug/m ³	3.4	3.4	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-71-8	Dichlorodifluoromethane	2.8		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
141-78-6	* Ethyl acetate	ND		ug/m ³	3.1	3.1	4.29	EPA TO-15 Certifications:	10/21/2015 13:04	10/22/2015 13:09	ALD
100-41-4	Ethyl Benzene	11		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
87-68-3	Hexachlorobutadiene	ND		ug/m ³	4.6	4.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
67-63-0	Isopropanol	4.5		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD



Sample Information

Client Sample ID: SV03_101315

York Sample ID: 15J0515-05

York Project (SDG) No.

15J0515

Client Project ID

170370001

Matrix

Soil Vapor

Collection Date/Time

October 13, 2015 3:00 pm

Date Received

10/13/2015

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
80-62-6	Methyl Methacrylate	ND		ug/m ³	1.8	1.8	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m ³	1.5	1.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-09-2	Methylene chloride	ND		ug/m ³	3.0	3.0	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
142-82-5	n-Heptane	13		ug/m ³	1.8	1.8	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
110-54-3	n-Hexane	8.5		ug/m ³	1.5	1.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
95-47-6	o-Xylene	17		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
179601-23-1	p- & m- Xylenes	43		ug/m ³	3.7	3.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
622-96-8	* p-Ethyltoluene	20		ug/m ³	2.1	2.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
115-07-1	* Propylene	ND		ug/m ³	0.74	0.74	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
100-42-5	Styrene	25		ug/m ³	1.8	1.8	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
127-18-4	Tetrachloroethylene	45		ug/m ³	0.73	0.73	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
109-99-9	* Tetrahydrofuran	7.2		ug/m ³	2.5	2.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
108-88-3	Toluene	42		ug/m ³	1.6	1.6	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m ³	1.7	1.7	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
79-01-6	Trichloroethylene	230		ug/m ³	0.58	0.58	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-69-4	Trichlorofluoromethane (Freon 11)	2.9		ug/m ³	2.4	2.4	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
108-05-4	Vinyl acetate	ND		ug/m ³	1.5	1.5	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
593-60-2	Vinyl bromide	ND		ug/m ³	1.9	1.9	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
75-01-4	Vinyl Chloride	ND		ug/m ³	1.1	1.1	4.29	EPA TO-15 Certifications: NELAC-NY10854,NJDEP	10/21/2015 13:04	10/22/2015 13:09	ALD
	Surrogate Recoveries	Result						Acceptance Range			
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	88.9 %						72-118			



Analytical Batch Summary

Batch ID: BJ51088

Preparation Method: EPA TO15 PREP

Prepared By: LDS

YORK Sample ID	Client Sample ID	Preparation Date
15J0515-01	SV02_101315	10/21/15
15J0515-02	SV04_101315	10/21/15
15J0515-03	SV05_101315	10/21/15
15J0515-04	AA01_101315	10/21/15
15J0515-04RE1	AA01_101315	10/21/15
15J0515-05	SV03_101315	10/21/15
BJ51088-BLK1	Blank	10/21/15
BJ51088-BS1	LCS	10/21/15
BJ51088-DUP1	Duplicate	10/21/15



Volatile Organic Compounds in Air by GC/MS - 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 BJ51088 - EPA TO15 PREP

Blank (BJ51088-BLK1)

Prepared & Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m ³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.40	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	1.3	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.62	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.40	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.80	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
n-Heptane	ND	0.41	"								
n-Hexane	ND	0.35	"								



Volatile Organic Compounds in Air by GC/MS - 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 BJ51088 - EPA TO15 PREP

Blank (BJ51088-BLK1)

Prepared & Analyzed: 10/21/2015

o-Xylene	ND	0.43	ug/m ³								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.26	"								

Surrogate: p-Bromofluorobenzene	9.16		ppbv	10.4		88.1	72-118				
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LCS (BJ51088-BS1)

Prepared & Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	9.81		ppbv	10.5		93.4	82-126				
1,1,1-Trichloroethane	9.60		"	10.2		94.1	70-130				
1,1,2,2-Tetrachloroethane	10.2		"	10.3		99.0	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.92		"	10.4		95.4	70-130				
1,1,2-Trichloroethane	10.7		"	10.3		104	70-130				
1,1-Dichloroethane	9.74		"	10.2		95.5	70-130				
1,1-Dichloroethylene	9.89		"	10.4		95.1	70-130				
1,2,4-Trichlorobenzene	9.80		"	9.00		109	70-130				
1,2,4-Trimethylbenzene	10.1		"	10.2		99.3	70-130				
1,2-Dibromoethane	11.0		"	10.4		106	70-130				
1,2-Dichlorobenzene	10.3		"	10.1		102	70-130				
1,2-Dichloroethane	9.86		"	10.2		96.7	70-130				
1,2-Dichloropropane	10.1		"	10.2		99.3	70-130				
1,2-Dichlorotetrafluoroethane	9.83		"	9.80		100	70-130				
1,3,5-Trimethylbenzene	9.61		"	10.0		96.1	70-130				
1,3-Butadiene	10.0		"	10.1		99.5	70-130				
1,3-Dichlorobenzene	10.6		"	10.2		104	70-130				
1,3-Dichloropropane	10.6		"	10.5		101	70-130				
1,4-Dichlorobenzene	11.0		"	10.1		109	70-130				
1,4-Dioxane	12.3		"	10.2		121	70-130				
2-Butanone	11.4		"	10.4		110	70-130				
2-Hexanone	13.1		"	10.5		124	70-130				
3-Chloropropene	10.3		"	10.7		95.9	70-130				
4-Methyl-2-pentanone	11.0		"	10.2		108	70-130				
Acetone	11.2		"	10.6		106	70-130				
Acrylonitrile	15.6		"	10.3		152	70-130	High Bias			
Benzene	9.95		"	10.3		96.6	70-130				
Benzyl chloride	9.17		"	10.2		89.9	70-130				
Bromodichloromethane	10.1		"	10.2		98.8	70-130				
Bromoform	10.3		"	10.1		102	70-130				
Bromomethane	8.85		"	9.50		93.2	70-130				
Carbon disulfide	10.7		"	10.5		102	70-130				
Carbon tetrachloride	9.59		"	10.2		94.0	70-130				
Chlorobenzene	10.1		"	10.5		96.0	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD	
		Limit	Units							Limit	Flag

Batch BJ51088 - EPA TO15 PREP

LCS (BJ51088-BS1)

Prepared & Analyzed: 10/21/2015

Chloroethane	9.08		ppbv	9.40		96.6	70-130				
Chloroform	9.53		"	10.4		91.6	70-130				
Chloromethane	8.54		"	9.80		87.1	70-130				
cis-1,2-Dichloroethylene	10.2		"	10.2		100	70-130				
cis-1,3-Dichloropropylene	11.1		"	11.0		101	70-130				
Cyclohexane	9.85		"	10.3		95.6	70-130				
Dibromochloromethane	11.0		"	10.6		104	70-130				
Dichlorodifluoromethane	8.40		"	9.80		85.7	70-130				
Ethyl acetate	10.8		"	10.4		104	70-130				
Ethyl Benzene	10.1		"	10.4		96.9	70-130				
Hexachlorobutadiene	10.1		"	9.10		111	70-130				
Isopropanol	12.1		"	10.0		121	70-130				
Methyl Methacrylate	11.7		"	9.80		119	70-130				
Methyl tert-butyl ether (MTBE)	9.86		"	10.3		95.7	70-130				
Methylene chloride	9.37		"	10.4		90.1	70-130				
n-Heptane	10.6		"	10.5		101	70-130				
n-Hexane	10.3		"	10.5		98.5	70-130				
o-Xylene	10.0		"	10.3		97.4	70-130				
p- & m- Xylenes	19.8		"	20.2		98.3	70-130				
p-Ethyltoluene	9.93		"	10.0		99.3	70-130				
Propylene	9.85		"	10.6		92.9	70-130				
Styrene	11.0		"	10.2		108	70-130				
Tetrachloroethylene	9.80		"	9.90		99.0	70-130				
Tetrahydrofuran	10.7		"	10.6		101	70-130				
Toluene	10.5		"	10.5		100	70-130				
trans-1,2-Dichloroethylene	9.80		"	10.1		97.0	70-130				
trans-1,3-Dichloropropylene	11.0		"	10.3		107	70-130				
Trichloroethylene	9.73		"	10.2		95.4	70-130				
Trichlorofluoromethane (Freon 11)	9.73		"	9.90		98.3	70-130				
Vinyl acetate	12.3		"	10.7		115	70-130				
Vinyl bromide	10.1		"	10.5		96.2	70-130				
Vinyl Chloride	9.80		"	9.90		99.0	70-130				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.4</i>		<i>97.3</i>	<i>72-118</i>				



Volatile Organic Compounds in Air by GC/MS - 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 BJ51088 - EPA TO15 PREP

Duplicate (BJ51088-DUP1)	*Source sample: 15J0515-04 (AA01_101315)					Prepared: 10/21/2015 Analyzed: 10/22/2015				
1,1,1,2-Tetrachloroethane	ND	0.84	ug/m ³		ND				200	
1,1,1-Trichloroethane	ND	0.67	"		ND				25	
1,1,2,2-Tetrachloroethane	ND	0.84	"		ND				25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.94	"		ND				25	
1,1,2-Trichloroethane	ND	0.67	"		ND				25	
1,1-Dichloroethane	ND	0.49	"		ND				25	
1,1-Dichloroethylene	ND	0.48	"		ND				25	
1,2,4-Trichlorobenzene	ND	0.91	"		ND				25	
1,2,4-Trimethylbenzene	0.90	0.60	"		0.96				6.45	25
1,2-Dibromoethane	ND	0.94	"		ND				25	
1,2-Dichlorobenzene	ND	0.73	"		ND				25	
1,2-Dichloroethane	ND	0.49	"		ND				25	
1,2-Dichloropropane	ND	0.56	"		ND				25	
1,2-Dichlorotetrafluoroethane	ND	0.85	"		ND				25	
1,3,5-Trimethylbenzene	ND	0.60	"		ND				25	
1,3-Butadiene	ND	1.6	"		ND				25	
1,3-Dichlorobenzene	ND	0.73	"		ND				25	
1,3-Dichloropropane	ND	0.56	"		ND				25	
1,4-Dichlorobenzene	ND	0.73	"		ND				25	
1,4-Dioxane	ND	0.88	"		ND				25	
2-Butanone	32	0.36	"		31				0.801	25
2-Hexanone	25	1.0	"		26				4.07	25
3-Chloropropene	ND	1.9	"		ND				25	
4-Methyl-2-pentanone	ND	0.50	"		1.4				25	
Acetone	170	0.58	"		170				3.23	25
Acrylonitrile	ND	0.26	"		ND				25	
Benzene	1.3	0.39	"		1.2				3.08	25
Benzyl chloride	ND	0.63	"		ND				25	
Bromodichloromethane	ND	0.76	"		ND				25	
Bromoform	ND	1.3	"		ND				25	
Bromomethane	ND	0.47	"		ND				25	
Carbon disulfide	ND	0.38	"		ND				25	
Carbon tetrachloride	ND	0.19	"		ND				25	
Chlorobenzene	ND	0.56	"		ND				25	
Chloroethane	ND	0.32	"		ND				25	
Chloroform	ND	0.60	"		ND				25	
Chloromethane	2.3	0.25	"		2.1				6.90	25
cis-1,2-Dichloroethylene	ND	0.48	"		ND				25	
cis-1,3-Dichloropropylene	ND	0.55	"		ND				25	
Cyclohexane	0.71	0.42	"		0.67				6.06	25
Dibromochloromethane	ND	0.98	"		ND				25	
Dichlorodifluoromethane	2.2	0.60	"		2.2				0.00	25
Ethyl acetate	ND	0.88	"		ND				25	
Ethyl Benzene	0.80	0.53	"		0.85				6.45	25
Hexachlorobutadiene	ND	1.3	"		ND				25	
Isopropanol	6.8	0.60	"		6.7				0.445	25
Methyl Methacrylate	ND	0.50	"		ND				25	
Methyl tert-butyl ether (MTBE)	ND	0.44	"		ND				25	
Methylene chloride	20	0.85	"		19				2.79	25
n-Heptane	1.3	0.50	"		1.3				3.92	25
n-Hexane	32	0.43	"		31				3.01	25



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC		Flag	RPD	
		Limit		Level	Result	Limits	RPD		Limit	Flag

Batch BJ51088 - EPA TO15 PREP

Duplicate (BJ51088-DUP1)

*Source sample: 15J0515-04 (AA01_101315)

Prepared: 10/21/2015 Analyzed: 10/22/2015

o-Xylene	1.0	0.53	ug/m ³		0.95				5.41	25
p- & m- Xylenes	2.5	1.1	"		2.5				0.00	25
p-Ethyltoluene	0.78	0.60	"		0.84				7.41	25
Propylene	ND	0.21	"		ND					25
Styrene	ND	0.52	"		ND					25
Tetrachloroethylene	3.3	0.21	"		3.2				2.53	25
Tetrahydrofuran	ND	0.72	"		ND					25
Toluene	3.9	0.46	"		3.8				2.38	25
trans-1,2-Dichloroethylene	ND	0.48	"		ND					25
trans-1,3-Dichloropropylene	ND	0.55	"		ND					25
Trichloroethylene	ND	0.16	"		ND					25
Trichlorofluoromethane (Freon 11)	5.4	0.69	"		5.0				7.89	25
Vinyl acetate	ND	0.43	"		ND					25
Vinyl bromide	ND	0.53	"		ND					25
Vinyl Chloride	ND	0.31	"		ND					25
<i>Surrogate: p-Bromofluorobenzene</i>	9.32		ppbv		10.4				89.6	72-118



Notes and Definitions

QL-03	This LCS analyte recovered outside of acceptance limits. The LCS contains approximately 70 compounds, a limited number of which may be outside acceptance windows.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
<hr/>	
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.





YORK
ANALYTICAL LABORATORIES, INC.

Field Chain-of-Custody Record - AIR

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 unless superseded by written contract.

York Project No. 550515

YOUR INFORMATION		Report To:		Invoice To:		YOUR PROJECT ID		Turn-Around Time		Report Type/Deliverables	
Company: <u>Langan</u>	Address: <u>900 W 30th St</u>	Company: <u>SAME</u>	Address: <u>AME</u>	Company: <u>AME</u>	Address: <u>AME</u>	<u>17057001</u>		<input type="checkbox"/> RUSH - Same Day	<input type="checkbox"/> RUSH - Next Day	<input type="checkbox"/> Summary Report	<input type="checkbox"/> Summary w/ QA Summary
Phone No. <u>202-479-5100</u>	Attention: <u>P. Farahan</u>	Phone No. <u>202-479-5100</u>	Attention: <u>Bryce Nichols</u>	Phone No. <u>202-479-5100</u>	Attention: <u>Bryce Nichols</u>	<u>Purchase Order No.</u>		<input type="checkbox"/> RUSH - Two Day	<input type="checkbox"/> RUSH - Three Day	<input type="checkbox"/> NY ASP A Package	<input checked="" type="checkbox"/> NY ASP B/CLP Pkg
Contact Person: <u>P. Farahan</u>	E-Mail Address: <u>pfarahan@langan.com</u>	Contact Person: <u>Bryce Nichols</u>	E-Mail Address: <u>bnichols@ame.com</u>	Contact Person: <u>Bryce Nichols</u>	E-Mail Address: <u>bnichols@ame.com</u>	<u>Samples from: CT</u> <u>NJ</u> <u>NJ</u>		<input type="checkbox"/> RUSH - Four Day	<input checked="" type="checkbox"/> Standard (5-7 Days)	<input type="checkbox"/> Electronic Deliverables:	<input checked="" type="checkbox"/> EDD (Specify Type)
										<input type="checkbox"/> Standard Excel	<input checked="" type="checkbox"/> Regulatory Comparison Excel

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.

Air Matrix Codes

AI -	INDOOR Ambient Air
AO -	OUTDOOR Amb. Air
AE -	Vapor Extraction Well/ Process Gas/Effluent
AS -	SOIL Vapor/Sub-Slab

Samples Collected/Authorized By (Signature)
R. Tishema
Name (printed)
R. Tishema

Additional Notes:

Please enter the following Field Data

Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Flow Cont. ID
<u>30</u>	<u>10</u>	<u>7116</u>
<u>30</u>	<u>8</u>	<u>Y46</u>
<u>30</u>	<u>8</u>	<u>7362</u>
<u>30</u>	<u>10</u>	<u>Y31</u>
<u>30</u>	<u>10</u>	<u>7269</u>

Detection Limits Required

≤ 1 ug/m ³	NYSDEC VI Limits (VI = vapor intrusion)	NIJDEP low level	Routine Survey	Other

Sample Identification	Date Sampled	AIR Matrix	Canister Vacuum Before Sampling (in. Hg)	Canister Vacuum After Sampling (in. Hg)	Camister ID	Flow Cont. ID	ANALYSES REQUESTED	Sampling Media
<u>SVO2-101315</u>	<u>10/13/15</u>	<u>AS</u>	<u>30</u>	<u>10</u>	<u>Y50</u>	<u>7116</u>	<u>TO-15</u>	6 Liter canister Tedlar Bag
<u>SVO4-101315</u>		<u>AS</u>	<u>30</u>	<u>8</u>	<u>Y42</u>	<u>Y46</u>		6 Liter canister Tedlar Bag
<u>SVO5-101315</u>		<u>AS</u>	<u>30</u>	<u>8</u>	<u>Y74</u>	<u>7362</u>		6 Liter canister Tedlar Bag
<u>AAO1-101315</u>		<u>AO</u>	<u>30</u>	<u>10</u>	<u>16141</u>	<u>Y31</u>		6 Liter canister Tedlar Bag
<u>SVO3-101315</u>		<u>AS</u>	<u>30</u>	<u>10</u>	<u>Y76</u>	<u>7269</u>		6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag
								6 Liter canister Tedlar Bag

Comments

10/13/15

Samples Relinquished By AME Date/Time 10/13/15 17:55

Samples Relinquished By JLC Date/Time 10/13/15 2:30

Samples Received in LAB by JLC Date/Time 10-13-15 17:55



Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)

21 Penn Plaza, 360 West 31st Street

New York NY, 10001

Attention: Gerald Nicholls

Report Date: 10/22/2015

Client Project ID: 170370001

York Project (SDG) No.: 15J0792

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 10/22/2015
Client Project ID: 170370001
York Project (SDG) No.: 15J0792

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

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 October 20, 2015 and listed below. The project was identified as your project: **170370001**.

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>
15J0792-01	MW03_102015	Water	10/20/2015	10/20/2015
15J0792-02	MW02_102015	Water	10/20/2015	10/20/2015
15J0792-03	MW01_102015	Water	10/20/2015	10/20/2015
15J0792-04	MW04_102015	Water	10/20/2015	10/20/2015
15J0792-05	GWDUP01_102015	Water	10/20/2015	10/20/2015
15J0792-06	GWFB01_102015	Water	10/20/2015	10/20/2015
15J0792-07	TRIPBLANK	Water	10/20/2015	10/20/2015

General Notes for York Project (SDG) No.: 15J0792

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: 10/22/2015





Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 8:45 am	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 8:45 am

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND	SCAL- E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
67-66-3	Chloroform	2.9		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
156-59-2	cis-1,2-Dichloroethylene	1.8		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 8:45 am

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/21/2015 23:24	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/21/2015 23:24	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
127-18-4	Tetrachloroethylene	33		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
156-60-5	trans-1,2-Dichloroethylene	0.34	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
79-01-6	Trichloroethylene	13		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/21/2015 16:37	10/21/2015 23:24	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	101 %			69-130						
2037-26-5	Surrogate: Toluene-d8	99.4 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	119 %			79-122						



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 8:45 am	<u>Date Received</u> 10/20/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 12:29	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 12:29	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 12:29	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
95-48-7	2-Methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 8:45 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
83-32-9	Acenaphthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
98-86-2	Acetophenone	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
62-53-3	Aniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
120-12-7	Anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
1912-24-9	Atrazine	ND		ug/L	0.526	0.526	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
100-52-7	Benzaldehyde	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
92-87-5	Benzidine	ND		ug/L	10.5	21.1	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
65-85-0	Benzoic acid	ND		ug/L	26.3	52.6	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 8:45 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
117-81-7	Bis(2-ethylhexyl)phthalate	0.779		ug/L	0.526	0.526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
105-60-2	Caprolactam	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
86-74-8	Carbazole	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
218-01-9	Chrysene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
132-64-9	Dibenzofuran	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
206-44-0	Fluoranthene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
86-73-7	Fluorene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0211	0.0211	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.526	0.526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
67-72-1	Hexachloroethane	ND		ug/L	0.526	0.526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
78-59-1	Isophorone	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
91-20-3	Naphthalene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
98-95-3	Nitrobenzene	ND		ug/L	0.263	0.263	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.526	0.526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 8:45 am	<u>Date Received</u> 10/20/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.263	0.263	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:48	SR
85-01-8	* Phenanthrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications:	10/22/2015 08:01	10/22/2015 12:48	SR
108-95-2	Phenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
129-00-0	Pyrene	ND		ug/L	0.0526	0.0526	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 12:29	KH
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	18.2 %	10-65								
4165-62-2	Surrogate: Phenol-d5	12.2 %	10-49								
4165-60-0	Surrogate: Nitrobenzene-d5	66.6 %	10-96								
321-60-8	Surrogate: 2-Fluorobiphenyl	56.1 %	10-93								
118-79-6	Surrogate: 2,4,6-Tribromophenol	68.4 %	10-128								
1718-51-0	Surrogate: Terphenyl-d14	72.8 %	10-100								

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
72-55-9	4,4'-DDE	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
50-29-3	4,4'-DDT	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
309-00-2	Aldrin	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
319-84-6	alpha-BHC	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
319-85-7	beta-BHC	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
57-74-9	Chlordane, total	ND		ug/L	0.0432	0.0432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
319-86-8	delta-BHC	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
60-57-1	Dieldrin	ND		ug/L	0.00216	0.00216	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
959-98-8	Endosulfan I	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 8:45 am

10/20/2015

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33213-65-9	Endosulfan II	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
72-20-8	Endrin	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
7421-93-4	Endrin aldehyde	ND		ug/L	0.0108	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
53494-70-5	Endrin ketone	ND		ug/L	0.0108	0.0108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
76-44-8	Heptachlor	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
72-43-5	Methoxychlor	ND		ug/L	0.00432	0.00432	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
8001-35-2	Toxaphene	ND		ug/L	0.108	0.108	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:18	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	46.0 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	31.1 %			30-120						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:13	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:13	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:13	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:13	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:13	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:13	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	0.0541	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:13	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0541	0.0541	1	EPA 8082A Certifications:	10/21/2015 08:20	10/21/2015 22:13	AMC
Surrogate Recoveries		Result			Acceptance Range						



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 8:45 am	<u>Date Received</u> 10/20/2015
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Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	59.2 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	26.1 %	GC-Sur		30-120						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:07	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:07	AMC
94-75-7	2,4-D	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:07	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	114 %			30-150						

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	1.74		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-39-3	* Barium	0.195		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-70-2	Calcium	347		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-47-3	* Chromium	0.00997		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-50-8	* Copper	0.0135		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7439-89-6	* Iron	1.78		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7439-92-1	* Lead	0.0113		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7439-95-4	Magnesium	134		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 03:53	ALD
7439-96-5	* Manganese	0.246		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-02-0	* Nickel	0.0247		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-09-7	Potassium	28.7		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 03:53	ALD



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 8:45 am	<u>Date Received</u> 10/20/2015
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-23-5	Sodium	473		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD
7440-66-6	* Zinc	0.0632		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:53	ALD

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	ND		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7440-39-3	* Barium	0.173		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7440-70-2	Calcium	312		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:08	ALD
7440-47-3	* Chromium	0.00773		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7440-50-8	* Copper	0.0100		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7439-89-6	* Iron	0.0987		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7439-92-1	* Lead	ND		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7439-95-4	Magnesium	122		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:08	ALD
7439-96-5	* Manganese	0.117		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7440-02-0	* Nickel	0.0201		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7440-09-7	Potassium	26.5		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:08	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD
7440-23-5	Sodium	411		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:08	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 8:45 am

10/20/2015

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	* Zinc	0.0282		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:08	ALD

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:33	ALD
7440-38-2	Arsenic	23.3		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:33	ALD
7440-41-7	Beryllium	ND		ug/L	0.600	0.600	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:33	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:33	ALD
7439-98-7	* Molybdenum	2.30		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:56	10/21/2015 18:33	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:33	ALD

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 16:58	ALD
7440-38-2	Arsenic	23.8		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 16:58	ALD
7440-41-7	Beryllium	ND		ug/L	0.200	0.200	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 16:58	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 16:58	ALD
7439-98-7	* Molybdenum	2.04		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:54	10/21/2015 16:58	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 16:58	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: MW03_102015

York Sample ID: 15J0792-01

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 8:45 am	<u>Date Received</u> 10/20/2015
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Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/20/2015 20:11	10/20/2015 20:11	CLS

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.00800	0.0100	1	Calculation Certifications:	10/22/2015 10:14	10/22/2015 11:25	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:27	10/21/2015 13:23	AD

Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 9:45 am	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 9:45 am

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
67-64-1	Acetone	1.1	SCAL- E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 9:45 am	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
67-66-3	Chloroform	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
156-59-2	cis-1,2-Dichloroethylene	0.23	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 9:45 am	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/21/2015 23:50	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/21/2015 23:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
127-18-4	Tetrachloroethylene	9.5		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
79-01-6	Trichloroethylene	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/21/2015 16:37	10/21/2015 23:50	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.0 %	69-130								
2037-26-5	Surrogate: Toluene-d8	100 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	121 %	79-122								

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 9:45 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 13:02	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 13:02	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 13:02	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
95-48-7	2-Methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 9:45 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-47-8	4-Chloroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
83-32-9	Acenaphthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
98-86-2	Acetophenone	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
62-53-3	Aniline	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
120-12-7	Anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
1912-24-9	Atrazine	ND		ug/L	0.513	0.513	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
100-52-7	Benzaldehyde	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
92-87-5	Benzidine	ND		ug/L	10.3	20.5	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
65-85-0	Benzoic acid	ND		ug/L	25.6	51.3	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.513	0.513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

York Project (SDG) No.

Client Project ID

Matrix

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15J0792

170370001

Water

October 20, 2015 9:45 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
86-74-8	Carbazole	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
218-01-9	Chrysene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
132-64-9	Dibenzofuran	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
86-73-7	Fluorene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0205	0.0205	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.513	0.513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
67-72-1	Hexachloroethane	ND		ug/L	0.513	0.513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
78-59-1	Isophorone	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
91-20-3	Naphthalene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
98-95-3	Nitrobenzene	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.513	0.513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.256	0.256	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
85-01-8	* Phenanthrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications:	10/22/2015 08:01	10/22/2015 13:18	SR



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 9:45 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/L	2.56	5.13	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:02	KH
129-00-0	Pyrene	ND		ug/L	0.0513	0.0513	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:18	SR
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	17.1 %			10-65						
4165-62-2	Surrogate: Phenol-d5	12.5 %			10-49						
4165-60-0	Surrogate: Nitrobenzene-d5	72.3 %			10-96						
321-60-8	Surrogate: 2-Fluorobiphenyl	62.4 %			10-93						
118-79-6	Surrogate: 2,4,6-Tribromophenol	73.6 %			10-128						
1718-51-0	Surrogate: Terphenyl-d14	71.3 %			10-100						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
72-55-9	4,4'-DDE	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
50-29-3	4,4'-DDT	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
309-00-2	Aldrin	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
319-84-6	alpha-BHC	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
319-85-7	beta-BHC	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
57-74-9	Chlordane, total	ND		ug/L	0.0421	0.0421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
319-86-8	delta-BHC	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
60-57-1	Dieldrin	ND		ug/L	0.00211	0.00211	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
959-98-8	Endosulfan I	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
33213-65-9	Endosulfan II	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
72-20-8	Endrin	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
7421-93-4	Endrin aldehyde	ND		ug/L	0.0105	0.0105	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

York Project (SDG) No.

Client Project ID

Matrix

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15J0792

170370001

Water

October 20, 2015 9:45 am

10/20/2015

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		ug/L	0.0105	0.0105	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
76-44-8	Heptachlor	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
72-43-5	Methoxychlor	ND		ug/L	0.00421	0.00421	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
8001-35-2	Toxaphene	ND		ug/L	0.105	0.105	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 16:33	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	44.2 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	40.3 %			30-120						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:32	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:32	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:32	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:32	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:32	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:32	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	0.0526	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 22:32	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0526	0.0526	1	EPA 8082A Certifications:	10/21/2015 08:20	10/21/2015 22:32	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	60.7 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	31.4 %			30-120						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0792	170370001	Water	October 20, 2015 9:45 am	10/20/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:23	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:23	AMC
94-75-7	2,4-D	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:23	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 113 %				30-150						

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	9.48		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7440-39-3	* Barium	0.446		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7440-70-2	Calcium	90.3		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 03:58	ALD
7440-47-3	* Chromium	0.0395		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7440-50-8	* Copper	0.0442		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7439-89-6	* Iron	11.3		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7439-92-1	* Lead	0.276		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7439-95-4	Magnesium	34.3		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 03:58	ALD
7439-96-5	* Manganese	1.25		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7440-02-0	* Nickel	0.181		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7440-09-7	Potassium	18.0		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 03:58	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD
7440-23-5	Sodium	176		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 03:58	ALD
7440-62-2	* Vanadium	0.0190		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 9:45 am	<u>Date Received</u> 10/20/2015
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	* Zinc	0.137		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 03:58	ALD

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	ND		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-39-3	* Barium	0.199		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-70-2	Calcium	79.1		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-47-3	* Chromium	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-50-8	* Copper	0.00892		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7439-89-6	* Iron	0.0346		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7439-92-1	* Lead	ND		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7439-95-4	Magnesium	30.0		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:27	ALD
7439-96-5	* Manganese	0.0130		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-02-0	* Nickel	0.0157		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-09-7	Potassium	15.0		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:27	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-23-5	Sodium	171		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD
7440-66-6	* Zinc	0.0242		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:27	ALD

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 9:45 am

10/20/2015

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:54	ALD
7440-38-2	Arsenic	12.1		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:54	ALD
7440-41-7	Beryllium	0.620		ug/L	0.600	0.600	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:54	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:54	ALD
7439-98-7	* Molybdenum	4.10		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:56	10/21/2015 18:54	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 18:54	ALD

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:19	ALD
7440-38-2	Arsenic	6.56		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:19	ALD
7440-41-7	Beryllium	ND		ug/L	0.200	0.200	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:19	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:19	ALD
7439-98-7	* Molybdenum	2.30		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:54	10/21/2015 17:19	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:19	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD



Sample Information

Client Sample ID: MW02_102015

York Sample ID: 15J0792-02

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 9:45 am	<u>Date Received</u> 10/20/2015
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Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/20/2015 20:11	10/20/2015 20:11	CLS

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	0.0395		mg/L	0.00800	0.0100	1	Calculation Certifications:	10/22/2015 10:14	10/22/2015 11:25	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:27	10/21/2015 13:23	AD

Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:15 am	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS



Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15J0792	170370001	Water	October 20, 2015 11:15 am	10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
78-87-5	1,2-Dichloropropane	0.28	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
108-67-8	1,3,5-Trimethylbenzene	4.3	CCV-E	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
78-93-3	2-Butanone	1.3	SCAL-E	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
67-64-1	Acetone	4.6	SCAL-E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
71-43-2	Benzene	0.71		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS



Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-15-0	Carbon disulfide	0.25	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
67-66-3	Chloroform	0.57		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
110-82-7	Cyclohexane	0.40	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
98-82-8	Isopropylbenzene	1.0	CCV-E	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
103-65-1	n-Propylbenzene	0.74	CCV-E	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
95-47-6	o-Xylene	0.51		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 00:16	SS



Sample Information

Client Sample ID: MW01_102015

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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 00:16	SS
99-87-6	p-Isopropyltoluene	0.23	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
135-98-8	sec-Butylbenzene	0.38	CCV-E, J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
127-18-4	Tetrachloroethylene	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
108-88-3	Toluene	0.23	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
79-01-6	Trichloroethylene	0.52		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
1330-20-7	* Xylenes, Total	0.88	J	ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/21/2015 16:37	10/22/2015 00:16	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	94.7 %			69-130						
2037-26-5	Surrogate: Toluene-d8	101 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	109 %			79-122						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 15:14	KH



Sample Information

Client Sample ID: MW01_102015

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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 15:14	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 15:14	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
95-57-8	2-Chlorophenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
95-48-7	2-Methylphenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
88-74-4	2-Nitroaniline	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
88-75-5	2-Nitrophenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
99-09-2	3-Nitroaniline	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
106-47-8	4-Chloroaniline	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH



Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 11:15 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
100-01-6	4-Nitroaniline	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
100-02-7	4-Nitrophenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
83-32-9	Acenaphthene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
208-96-8	Acenaphthylene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
98-86-2	Acetophenone	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
62-53-3	Aniline	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
120-12-7	Anthracene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
1912-24-9	Atrazine	ND		ug/L	1.48	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
100-52-7	Benzaldehyde	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
92-87-5	Benzidine	ND		ug/L	29.6	59.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
65-85-0	Benzoic acid	ND		ug/L	74.1	148	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
100-51-6	Benzyl alcohol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	1.48	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
105-60-2	Caprolactam	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH



Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

York Project (SDG) No.
15J0792

Client Project ID
170370001

Matrix
Water

Collection Date/Time
October 20, 2015 11:15 am

Date Received
10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
218-01-9	Chrysene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
132-64-9	Dibenzofuran	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
84-66-2	Diethyl phthalate	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
131-11-3	Dimethyl phthalate	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
206-44-0	Fluoranthene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
86-73-7	Fluorene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0593	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	1.48	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
67-72-1	Hexachloroethane	ND		ug/L	1.48	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
78-59-1	Isophorone	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
91-20-3	Naphthalene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
98-95-3	Nitrobenzene	ND		ug/L	0.741	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	1.48	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.741	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
85-01-8	* Phenanthrene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications:	10/22/2015 08:01	10/22/2015 15:14	KH
108-95-2	Phenol	ND		ug/L	7.41	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH



Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 11:15 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/L	0.148	14.8	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 15:14	KH
Surrogate Recoveries		Result			Acceptance Range						
367-12-4	Surrogate: 2-Fluorophenol	3.80 %	S-01		10-65						
4165-62-2	Surrogate: Phenol-d5	2.40 %	S-01		10-49						
4165-60-0	Surrogate: Nitrobenzene-d5	12.7 %			10-96						
321-60-8	Surrogate: 2-Fluorobiphenyl	10.7 %			10-93						
118-79-6	Surrogate: 2,4,6-Tribromophenol	14.1 %			10-128						
1718-51-0	Surrogate: Terphenyl-d14	12.5 %			10-100						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
72-55-9	4,4'-DDE	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
50-29-3	4,4'-DDT	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
309-00-2	Aldrin	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
319-84-6	alpha-BHC	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
319-85-7	beta-BHC	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
57-74-9	Chlordane, total	ND		ug/L	0.0485	0.0485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
319-86-8	delta-BHC	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
60-57-1	Dieldrin	ND		ug/L	0.00242	0.00242	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
959-98-8	Endosulfan I	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
33213-65-9	Endosulfan II	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
72-20-8	Endrin	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
7421-93-4	Endrin aldehyde	ND		ug/L	0.0121	0.0121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
53494-70-5	Endrin ketone	ND		ug/L	0.0121	0.0121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC



Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:15 am	<u>Date Received</u> 10/20/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
76-44-8	Heptachlor	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
72-43-5	Methoxychlor	ND		ug/L	0.00485	0.00485	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
8001-35-2	Toxaphene	ND		ug/L	0.121	0.121	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:48	10/22/2015 12:14	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	21.1 %	S-DUP		30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	18.3 %	S-DUP		30-120						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0606	0.0606	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/22/2015 08:48	10/22/2015 12:46	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0606	0.0606	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/22/2015 08:48	10/22/2015 12:46	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0606	0.0606	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/22/2015 08:48	10/22/2015 12:46	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0606	0.0606	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/22/2015 08:48	10/22/2015 12:46	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0606	0.0606	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/22/2015 08:48	10/22/2015 12:46	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0606	0.0606	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/22/2015 08:48	10/22/2015 12:46	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0606	0.0606	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/22/2015 08:48	10/22/2015 12:46	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0606	0.0606	1	EPA 8082A Certifications:	10/22/2015 08:48	10/22/2015 12:46	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	38.8 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	26.6 %	GC-Sur		30-120						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
15J0792	170370001	Water	October 20, 2015 11:15 am	10/20/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:39	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:39	AMC
94-75-7	2,4-D	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:39	AMC
Surrogate Recoveries		Result	Acceptance Range								
19719-28-9	<i>Surrogate: 2,4-Dichlorophenylacetic acid (L 104 %</i>		<i>30-150</i>								

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	33.8		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7440-39-3	* Barium	0.914		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7440-70-2	Calcium	147		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:03	ALD
7440-47-3	* Chromium	0.128		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7440-50-8	* Copper	0.151		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7439-89-6	* Iron	49.2		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7439-92-1	* Lead	0.633		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7439-95-4	Magnesium	54.0		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:03	ALD
7439-96-5	* Manganese	11.6		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7440-02-0	* Nickel	0.248		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7440-09-7	Potassium	27.9		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:03	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD
7440-23-5	Sodium	204		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:03	ALD
7440-62-2	* Vanadium	0.0950		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD



Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:15 am	<u>Date Received</u> 10/20/2015
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	* Zinc	0.325		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:03	ALD

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	0.173		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-39-3	* Barium	0.333		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-70-2	Calcium	115		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-47-3	* Chromium	0.00570		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-50-8	* Copper	0.0120		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7439-89-6	* Iron	0.561		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7439-92-1	* Lead	ND		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7439-95-4	Magnesium	43.7		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:32	ALD
7439-96-5	* Manganese	8.75		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-02-0	* Nickel	0.0481		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-09-7	Potassium	17.3		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:32	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-23-5	Sodium	206		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD
7440-66-6	* Zinc	0.0322		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:32	ALD

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:15 am	<u>Date Received</u> 10/20/2015
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Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:01	ALD
7440-38-2	Arsenic	12.9		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:01	ALD
7440-41-7	Beryllium	3.18		ug/L	0.600	0.600	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:01	ALD
7440-43-9	Cadmium	1.22		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:01	ALD
7439-98-7	* Molybdenum	16.6		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:01	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:01	ALD

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:25	ALD
7440-38-2	Arsenic	3.20		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:25	ALD
7440-41-7	Beryllium	ND		ug/L	0.200	0.200	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:25	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:25	ALD
7439-98-7	* Molybdenum	11.9		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:25	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:25	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD



Sample Information

Client Sample ID: MW01_102015

York Sample ID: 15J0792-03

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:15 am	<u>Date Received</u> 10/20/2015
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Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/20/2015 20:11	10/20/2015 20:11	CLS

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	0.128		mg/L	0.00800	0.0100	1	Calculation Certifications:	10/22/2015 10:14	10/22/2015 11:25	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:27	10/21/2015 13:23	AD

Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 2:00 pm	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS



Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 2:00 pm

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
67-64-1	Acetone	1.2	SCAL-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-27-4	Bromodichloromethane	0.69		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS



Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 2:00 pm

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
67-66-3	Chloroform	6.6		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 00:42	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 00:42	SS



Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

York Project (SDG) No.

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170370001

Water

October 20, 2015 2:00 pm

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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
127-18-4	Tetrachloroethylene	6.7		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
79-01-6	Trichloroethylene	1.7		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/21/2015 16:37	10/22/2015 00:42	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.4 %
2037-26-5	Surrogate: Toluene-d8	99.2 %
460-00-4	Surrogate: p-Bromofluorobenzene	117 %

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 13:35	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH



Sample Information

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Water

October 20, 2015 2:00 pm

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 13:35	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 13:35	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
95-48-7	2-Methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH



Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

York Project (SDG) No.

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15J0792

170370001

Water

October 20, 2015 2:00 pm

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
83-32-9	Acenaphthene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
98-86-2	Acetophenone	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
62-53-3	Aniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
120-12-7	Anthracene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
1912-24-9	Atrazine	ND		ug/L	0.588	0.588	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
100-52-7	Benzaldehyde	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
92-87-5	Benzidine	ND		ug/L	11.8	23.5	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
65-85-0	Benzoic acid	ND		ug/L	29.4	58.8	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.588	0.588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
105-60-2	Caprolactam	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
86-74-8	Carbazole	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH



Sample Information

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170370001

Water

October 20, 2015 2:00 pm

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	0.0941		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
132-64-9	Dibenzofuran	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
206-44-0	Fluoranthene	0.153		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
86-73-7	Fluorene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0235	0.0235	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.588	0.588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
67-72-1	Hexachloroethane	ND		ug/L	0.588	0.588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
78-59-1	Isophorone	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
91-20-3	Naphthalene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
98-95-3	Nitrobenzene	ND		ug/L	0.294	0.294	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.588	0.588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.294	0.294	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
85-01-8	* Phenanthrene	0.0824		ug/L	0.0588	0.0588	1	EPA 8270D Certifications:	10/22/2015 08:01	10/22/2015 13:49	SR
108-95-2	Phenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:35	KH



Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 2:00 pm

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	0.200		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 13:49	SR
	Surrogate Recoveries	Result									Acceptance Range
367-12-4	Surrogate: 2-Fluorophenol	15.7 %									10-65
4165-62-2	Surrogate: Phenol-d5	13.4 %									10-49
4165-60-0	Surrogate: Nitrobenzene-d5	64.1 %									10-96
321-60-8	Surrogate: 2-Fluorobiphenyl	53.1 %									10-93
118-79-6	Surrogate: 2,4,6-Tribromophenol	66.7 %									10-128
1718-51-0	Surrogate: Terphenyl-d14	69.6 %									10-100

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
72-55-9	4,4'-DDE	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
50-29-3	4,4'-DDT	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
309-00-2	Aldrin	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
319-84-6	alpha-BHC	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
319-85-7	beta-BHC	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
57-74-9	Chlordane, total	ND		ug/L	0.0444	0.0444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
319-86-8	delta-BHC	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
60-57-1	Dieldrin	ND		ug/L	0.00222	0.00222	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
959-98-8	Endosulfan I	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
33213-65-9	Endosulfan II	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
72-20-8	Endrin	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
7421-93-4	Endrin aldehyde	ND		ug/L	0.0111	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
53494-70-5	Endrin ketone	ND		ug/L	0.0111	0.0111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC



Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 2:00 pm	<u>Date Received</u> 10/20/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
76-44-8	Heptachlor	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
72-43-5	Methoxychlor	ND		ug/L	0.00444	0.00444	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
8001-35-2	Toxaphene	ND		ug/L	0.111	0.111	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:03	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	38.4 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	30.8 %			30-120						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0556	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:10	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0556	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:10	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0556	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:10	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0556	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:10	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0556	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:10	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0556	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:10	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0556	0.0556	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:10	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0556	0.0556	1	EPA 8082A Certifications:	10/21/2015 08:20	10/21/2015 23:10	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	57.2 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	30.0 %	GC-Sur		30-120						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 2:00 pm	<u>Date Received</u> 10/20/2015
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Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:55	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:55	AMC
94-75-7	2,4-D	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 18:55	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 109 %				30-150						

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	4.43		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7440-39-3	* Barium	0.346		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7440-70-2	Calcium	80.1		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:08	ALD
7440-47-3	* Chromium	0.0118		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7440-50-8	* Copper	0.00901		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7439-89-6	* Iron	3.75		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7439-92-1	* Lead	0.0457		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7439-95-4	Magnesium	20.6		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:08	ALD
7439-96-5	* Manganese	0.182		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7440-02-0	* Nickel	0.0158		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7440-09-7	Potassium	17.0		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:08	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD
7440-23-5	Sodium	117		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:08	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD



Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 2:00 pm

10/20/2015

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	* Zinc	0.0490		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:08	ALD

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	ND		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-39-3	* Barium	0.274		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-70-2	Calcium	82.6		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-47-3	* Chromium	0.0377		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-50-8	* Copper	0.00757		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7439-89-6	* Iron	0.169		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7439-92-1	* Lead	ND		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7439-95-4	Magnesium	20.3		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:37	ALD
7439-96-5	* Manganese	0.0646		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-02-0	* Nickel	0.0233		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-09-7	Potassium	16.5		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:37	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-23-5	Sodium	125		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD
7440-66-6	* Zinc	0.0214		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:37	ALD

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 2:00 pm

10/20/2015

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:21	ALD
7440-38-2	Arsenic	3.82		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:21	ALD
7440-41-7	Beryllium	ND		ug/L	0.600	0.600	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:21	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:21	ALD
7439-98-7	* Molybdenum	11.5		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:56	10/21/2015 19:21	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:21	ALD

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:32	ALD
7440-38-2	Arsenic	4.36		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:32	ALD
7440-41-7	Beryllium	ND		ug/L	0.200	0.200	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:32	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:32	ALD
7439-98-7	* Molybdenum	11.7		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:54	10/21/2015 17:32	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:32	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD



Sample Information

Client Sample ID: MW04_102015

York Sample ID: 15J0792-04

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 2:00 pm	<u>Date Received</u> 10/20/2015
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Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/20/2015 20:11	10/20/2015 20:11	CLS

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	0.0118		mg/L	0.00800	0.0100	1	Calculation Certifications:	10/22/2015 10:14	10/22/2015 11:25	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:27	10/21/2015 13:23	AD

Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:11 am	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:11 am	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
67-64-1	Acetone	1.6	SCAL-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 11:11 am

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
67-66-3	Chloroform	1.2		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
156-59-2	cis-1,2-Dichloroethylene	0.25	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 01:08	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 01:08	SS



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 11:11 am

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
127-18-4	Tetrachloroethylene	11		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
79-01-6	Trichloroethylene	1.9		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/21/2015 16:37	10/22/2015 01:08	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.6 %									
2037-26-5	Surrogate: Toluene-d8	99.1 %									
460-00-4	Surrogate: p-Bromofluorobenzene	116 %									

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 14:08	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

York Project (SDG) No.
15J0792

Client Project ID
170370001

Matrix
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Collection Date/Time
October 20, 2015 11:11 am

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10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 14:08	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 14:08	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
95-48-7	2-Methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

York Project (SDG) No.

Client Project ID

Matrix

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15J0792

170370001

Water

October 20, 2015 11:11 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
83-32-9	Acenaphthene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
98-86-2	Acetophenone	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
62-53-3	Aniline	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
120-12-7	Anthracene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
1912-24-9	Atrazine	ND		ug/L	0.588	0.588	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
100-52-7	Benzaldehyde	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
92-87-5	Benzidine	ND		ug/L	11.8	23.5	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
65-85-0	Benzoic acid	ND		ug/L	29.4	58.8	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
117-81-7	Bis(2-ethylhexyl)phthalate	0.976		ug/L	0.588	0.588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
105-60-2	Caprolactam	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
86-74-8	Carbazole	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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15J0792

170370001

Water

October 20, 2015 11:11 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
132-64-9	Dibenzofuran	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
206-44-0	Fluoranthene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
86-73-7	Fluorene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0235	0.0235	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.588	0.588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
67-72-1	Hexachloroethane	ND		ug/L	0.588	0.588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
78-59-1	Isophorone	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
91-20-3	Naphthalene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
98-95-3	Nitrobenzene	ND		ug/L	0.294	0.294	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.588	0.588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.294	0.294	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR
85-01-8	* Phenanthrene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications:	10/22/2015 08:01	10/22/2015 14:08	KH
108-95-2	Phenol	ND		ug/L	2.94	5.88	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:08	KH
129-00-0	Pyrene	ND		ug/L	0.0588	0.0588	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:20	SR



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:11 am	<u>Date Received</u> 10/20/2015
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Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	15.4 %			10-65						
4165-62-2	Surrogate: Phenol-d5	16.1 %			10-49						
4165-60-0	Surrogate: Nitrobenzene-d5	69.1 %			10-96						
321-60-8	Surrogate: 2-Fluorobiphenyl	59.8 %			10-93						
118-79-6	Surrogate: 2,4,6-Tribromophenol	72.1 %			10-128						
1718-51-0	Surrogate: Terphenyl-d14	74.1 %			10-100						

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
72-55-9	4,4'-DDE	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
50-29-3	4,4'-DDT	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
309-00-2	Aldrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
319-84-6	alpha-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
319-85-7	beta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
57-74-9	Chlordane, total	ND		ug/L	0.0410	0.0410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
319-86-8	delta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
60-57-1	Dieldrin	ND		ug/L	0.00205	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
959-98-8	Endosulfan I	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
33213-65-9	Endosulfan II	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
72-20-8	Endrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
7421-93-4	Endrin aldehyde	ND		ug/L	0.0103	0.0103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
53494-70-5	Endrin ketone	ND		ug/L	0.0103	0.0103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC



Sample Information

Client Sample ID: GWDUP01_102015

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170370001

Water

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10/20/2015

Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-44-8	Heptachlor	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
72-43-5	Methoxychlor	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
8001-35-2	Toxaphene	ND		ug/L	0.103	0.103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:18	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	36.7 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	30.4 %			30-120						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:29	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:29	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:29	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:29	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:29	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:29	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:29	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications:	10/21/2015 08:20	10/21/2015 23:29	AMC
Surrogate Recoveries		Result			Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	56.7 %			30-120						
2051-24-3	Surrogate: Decachlorobiphenyl	30.4 %			30-120						

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 19:11	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 19:11	AMC



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 11:11 am

10/20/2015

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
94-75-7	2,4-D	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 19:11	AMC
Surrogate Recoveries		Result			Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L 118 %				30-150						

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	3.38		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-39-3	* Barium	0.242		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-70-2	Calcium	87.4		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-47-3	* Chromium	0.0117		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-50-8	* Copper	0.00993		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7439-89-6	* Iron	3.38		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7439-92-1	* Lead	0.0298		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7439-95-4	Magnesium	32.7		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:13	ALD
7439-96-5	* Manganese	0.141		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-02-0	* Nickel	0.0327		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-09-7	Potassium	15.9		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:13	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-23-5	Sodium	183		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD
7440-66-6	* Zinc	0.0384		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:13	ALD

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:11 am	<u>Date Received</u> 10/20/2015
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Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	ND		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-39-3	* Barium	0.195		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-70-2	Calcium	78.8		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-47-3	* Chromium	0.0381		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-50-8	* Copper	0.00785		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7439-89-6	* Iron	0.174		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7439-92-1	* Lead	ND		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7439-95-4	Magnesium	29.4		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:43	ALD
7439-96-5	* Manganese	0.0151		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-02-0	* Nickel	0.0344		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-09-7	Potassium	14.6		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:43	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-23-5	Sodium	168		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD
7440-66-6	* Zinc	0.0394		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:43	ALD

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:28	ALD
7440-38-2	Arsenic	5.68		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:28	ALD
7440-41-7	Beryllium	ND		ug/L	0.600	0.600	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:28	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:28	ALD
7439-98-7	* Molybdenum	2.50		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:56	10/21/2015 19:28	ALD



Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:11 am	<u>Date Received</u> 10/20/2015
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Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:28	ALD

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:39	ALD
7440-38-2	Arsenic	5.60		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:39	ALD
7440-41-7	Beryllium	ND		ug/L	0.200	0.200	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:39	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:39	ALD
7439-98-7	* Molybdenum	2.18		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:54	10/21/2015 17:39	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:39	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/20/2015 20:11	10/20/2015 20:11	CLS

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: GWDUP01_102015

York Sample ID: 15J0792-05

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 11:11 am	<u>Date Received</u> 10/20/2015
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Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	0.0117		mg/L	0.00800	0.0100	1	Calculation Certifications:	10/22/2015 10:14	10/22/2015 11:25	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:27	10/21/2015 13:23	AD

Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 7:00 am	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS



Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 7:00 am

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
67-64-1	Acetone	1.7	SCAL-E, J	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS



Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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15J0792

170370001

Water

October 20, 2015 7:00 am

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 01:35	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 01:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS



Sample Information

Client Sample ID: GWFB01_102015

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15J0792

170370001

Water

October 20, 2015 7:00 am

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/21/2015 16:37	10/22/2015 01:35	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.8 %			69-130						
2037-26-5	Surrogate: Toluene-d8	101 %			81-117						
460-00-4	Surrogate: p-Bromofluorobenzene	115 %			79-122						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1'-Biphenyl	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 14:40	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 14:40	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854	10/22/2015 08:01	10/22/2015 14:40	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH



Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

York Project (SDG) No.

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15J0792

170370001

Water

October 20, 2015 7:00 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
83-32-9	Acenaphthene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH



Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

York Project (SDG) No.

Client Project ID

Matrix

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15J0792

170370001

Water

October 20, 2015 7:00 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
120-12-7	Anthracene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
1912-24-9	Atrazine	ND		ug/L	0.556	0.556	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
92-87-5	Benzidine	ND		ug/L	11.1	22.2	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
65-85-0	Benzoic acid	ND		ug/L	27.8	55.6	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.556	0.556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
218-01-9	Chrysene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH



Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 7:00 am

10/20/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
206-44-0	Fluoranthene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
86-73-7	Fluorene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0222	0.0222	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	0.556	0.556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
67-72-1	Hexachloroethane	ND		ug/L	0.556	0.556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
91-20-3	Naphthalene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
98-95-3	Nitrobenzene	ND		ug/L	0.278	0.278	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.556	0.556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.278	0.278	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
85-01-8	* Phenanthrene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications:	10/22/2015 08:01	10/22/2015 14:50	SR
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:40	KH
129-00-0	Pyrene	ND		ug/L	0.0556	0.0556	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP	10/22/2015 08:01	10/22/2015 14:50	SR
Surrogate Recoveries		Result	Acceptance Range								
367-12-4	Surrogate: 2-Fluorophenol	19.9 %	10-65								
4165-62-2	Surrogate: Phenol-d5	16.9 %	10-49								
4165-60-0	Surrogate: Nitrobenzene-d5	83.6 %	10-96								
321-60-8	Surrogate: 2-Fluorobiphenyl	72.0 %	10-93								
118-79-6	Surrogate: 2,4,6-Tribromophenol	80.8 %	10-128								
1718-51-0	Surrogate: Terphenyl-d14	83.4 %	10-100								



Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 7:00 am	<u>Date Received</u> 10/20/2015
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Pesticides, EPA TCL List

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
72-55-9	4,4'-DDE	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
50-29-3	4,4'-DDT	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
309-00-2	Aldrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
319-84-6	alpha-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
319-85-7	beta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
57-74-9	Chlordane, total	ND		ug/L	0.0410	0.0410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
319-86-8	delta-BHC	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
60-57-1	Dieldrin	ND		ug/L	0.00205	0.00205	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
959-98-8	Endosulfan I	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
33213-65-9	Endosulfan II	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
72-20-8	Endrin	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
7421-93-4	Endrin aldehyde	ND		ug/L	0.0103	0.0103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
53494-70-5	Endrin ketone	ND		ug/L	0.0103	0.0103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
76-44-8	Heptachlor	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
72-43-5	Methoxychlor	ND		ug/L	0.00410	0.00410	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC
8001-35-2	Toxaphene	ND		ug/L	0.103	0.103	1	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 08:20	10/21/2015 17:33	AMC

Surrogate Recoveries

	Surrogate	Result	Acceptance Range
877-09-8	Surrogate: Tetrachloro-m-xylene	44.9 %	30-120
2051-24-3	Surrogate: Decachlorobiphenyl	24.2 %	30-120

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Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

York Project (SDG) No.

Client Project ID

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15J0792

170370001

Water

October 20, 2015 7:00 am

10/20/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

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

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:49	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:49	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:49	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:49	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:49	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:49	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:20	10/21/2015 23:49	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0513	0.0513	1	EPA 8082A Certifications:	10/21/2015 08:20	10/21/2015 23:49	AMC

Surrogate Recoveries

Result

Acceptance Range

877-09-8	Surrogate: Tetrachloro-m-xylene	75.1 %	30-120
2051-24-3	Surrogate: Decachlorobiphenyl	30.4 %	30-120

Herbicides, Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 19:27	AMC
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 19:27	AMC
94-75-7	2,4-D	ND		ug/L	5.00	5.00	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 09:26	10/21/2015 19:27	AMC

Surrogate Recoveries

Result

Acceptance Range

19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (L	106 %	30-150
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	ND		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7440-39-3	* Barium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7440-70-2	Calcium	0.0787		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:18	ALD



Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 7:00 am	<u>Date Received</u> 10/20/2015
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Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	* Chromium	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7440-50-8	* Copper	ND		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7439-89-6	* Iron	0.0461		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7439-92-1	* Lead	ND		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7439-95-4	Magnesium	ND		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:18	ALD
7439-96-5	* Manganese	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7440-02-0	* Nickel	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7440-09-7	* Potassium	0.0607		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:18	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7440-23-5	* Sodium	0.409		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:47	10/22/2015 04:18	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD
7440-66-6	* Zinc	0.0135		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:47	10/22/2015 04:18	ALD

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	* Aluminum	0.121		mg/L	0.0556	0.0556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-39-3	* Barium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-70-2	* Calcium	0.212		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-47-3	* Chromium	0.0295		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-50-8	* Copper	ND		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7439-89-6	* Iron	0.223		mg/L	0.0222	0.0222	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7439-92-1	* Lead	ND		mg/L	0.00333	0.00333	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7439-95-4	Magnesium	ND		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:48	ALD



Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

York Project (SDG) No.

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Water

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Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	* Manganese	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-02-0	* Nickel	0.0167		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-09-7	Potassium	0.0784		mg/L	0.0556	0.0556	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:48	ALD
7782-49-2	* Selenium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-22-4	* Silver	ND		mg/L	0.00556	0.00556	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-23-5	Sodium	0.484		mg/L	0.111	0.111	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-62-2	* Vanadium	ND		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD
7440-66-6	* Zinc	0.0236		mg/L	0.0111	0.0111	1	EPA 6010C Certifications:	10/21/2015 13:51	10/22/2015 01:48	ALD

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:35	ALD
7440-38-2	Arsenic	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:35	ALD
7440-41-7	Beryllium	ND		ug/L	0.600	0.600	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:35	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:35	ALD
7439-98-7	* Molybdenum	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:56	10/21/2015 19:35	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:56	10/21/2015 19:35	ALD

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:59	ALD
7440-38-2	Arsenic	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:59	ALD
7440-41-7	Beryllium	ND		ug/L	0.200	0.200	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:59	ALD
7440-43-9	Cadmium	ND		ug/L	1.00	1.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:59	ALD



Sample Information

Client Sample ID: GWFB01_102015

York Sample ID: 15J0792-06

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 7:00 am	<u>Date Received</u> 10/20/2015
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Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-98-7	* Molybdenum	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications:	10/21/2015 13:54	10/21/2015 17:59	ALD
7440-28-0	Thallium	ND		ug/L	2.00	2.00	2	EPA 6020A Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 13:54	10/21/2015 17:59	ALD

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	10/21/2015 11:50	10/22/2015 08:44	ALD

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	0.0100	1	EPA 7196A Certifications: NELAC-NY10854,CTDOH,NJDEP	10/20/2015 20:11	10/20/2015 20:11	CLS

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.00800	0.0100	1	Calculation Certifications:	10/22/2015 10:14	10/22/2015 11:25	PAM

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	0.0100	1	SM 4500 CN C/E Certifications: NELAC-NY10854,CTDOH,NJDEP	10/21/2015 08:27	10/21/2015 13:23	AD



Sample Information

Client Sample ID: TRIPBLANK

York Sample ID: 15J0792-07

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 3:00 pm	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS



Sample Information

Client Sample ID: TRIPBLANK

York Sample ID: 15J0792-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

15J0792

170370001

Water

October 20, 2015 3:00 pm

10/20/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND	SCAL- E	ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
107-02-8	Acrolein	ND		ug/L	0.20	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS



Sample Information

Client Sample ID: TRIPBLANK

York Sample ID: 15J0792-07

<u>York Project (SDG) No.</u> 15J0792	<u>Client Project ID</u> 170370001	<u>Matrix</u> Water	<u>Collection Date/Time</u> October 20, 2015 3:00 pm	<u>Date Received</u> 10/20/2015
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Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 02:01	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854	10/21/2015 16:37	10/22/2015 02:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NJDEP	10/21/2015 16:37	10/22/2015 02:01	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.3 %	69-130
2037-26-5	Surrogate: Toluene-d8	100 %	81-117
460-00-4	Surrogate: p-Bromofluorobenzene	114 %	79-122



Analytical Batch Summary

Batch ID: BJ51040 **Preparation Method:** Analysis Preparation **Prepared By:** CLS

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/20/15
15J0792-02	MW02_102015	10/20/15
15J0792-03	MW01_102015	10/20/15
15J0792-04	MW04_102015	10/20/15
15J0792-05	GWDUP01_102015	10/20/15
15J0792-06	GWFB01_102015	10/20/15
BJ51040-BLK1	Blank	10/20/15
BJ51040-BS1	LCS	10/20/15
BJ51040-DUP1	Duplicate	10/20/15
BJ51040-MS1	Matrix Spike	10/20/15

Batch ID: BJ51053 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** KAT

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/21/15
15J0792-01	MW03_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
BJ51053-BLK1	Blank	10/21/15
BJ51053-BLK1	Blank	10/21/15
BJ51053-BS1	LCS	10/21/15
BJ51053-BS2	LCS	10/21/15
BJ51053-BSD1	LCS Dup	10/21/15
BJ51053-BSD2	LCS Dup	10/21/15

Batch ID: BJ51056 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-03	MW01_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
BJ51056-BLK1	Blank	10/21/15
BJ51056-BS1	LCS	10/21/15
BJ51056-DUP1	Duplicate	10/21/15
BJ51056-MS1	Matrix Spike	10/21/15



Batch ID: BJ51067

Preparation Method: EPA 3535A

Prepared By: TFD

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-03	MW01_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
BJ51067-BLK1	Blank	10/21/15
BJ51067-BS1	LCS	10/21/15
BJ51067-BSD1	LCS Dup	10/21/15

Batch ID: BJ51079

Preparation Method: EPA 7473 water

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-03	MW01_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
BJ51079-BLK1	Blank	10/21/15
BJ51079-SRM1	Reference	10/21/15

Batch ID: BJ51095

Preparation Method: EPA 3015A

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-03	MW01_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
BJ51095-BLK1	Blank	10/21/15
BJ51095-SRM1	Reference	10/21/15

Batch ID: BJ51096

Preparation Method: EPA 3015A

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-03	MW01_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
BJ51096-BLK1	Blank	10/21/15
BJ51096-SRM1	Reference	10/21/15



Batch ID: BJ51097

Preparation Method: EPA 3015A

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-03	MW01_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
BJ51097-BLK1	Blank	10/21/15
BJ51097-DUP1	Duplicate	10/21/15
BJ51097-MS1	Matrix Spike	10/21/15
BJ51097-SRM1	Reference	10/21/15

Batch ID: BJ51099

Preparation Method: EPA 3015A

Prepared By: ALD

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-03	MW01_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
BJ51099-BLK1	Blank	10/21/15
BJ51099-DUP1	Duplicate	10/21/15
BJ51099-MS1	Matrix Spike	10/21/15
BJ51099-SRM1	Reference	10/21/15

Batch ID: BJ51104

Preparation Method: EPA 5030B

Prepared By: BGS

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/21/15
15J0792-02	MW02_102015	10/21/15
15J0792-03	MW01_102015	10/21/15
15J0792-04	MW04_102015	10/21/15
15J0792-05	GWDUP01_102015	10/21/15
15J0792-06	GWFB01_102015	10/21/15
15J0792-07	TRIPBLANK	10/21/15
BJ51104-BLK1	Blank	10/21/15
BJ51104-BS1	LCS	10/21/15
BJ51104-BSD1	LCS Dup	10/21/15

Batch ID: BJ51127

Preparation Method: EPA SW846-3510C Low Level

Prepared By: KAT

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-03	MW01_102015	10/22/15
15J0792-03	MW01_102015	10/22/15
BJ51127-BLK1	Blank	10/22/15
BJ51127-BLK1	Blank	10/22/15
BJ51127-BS1	LCS	10/22/15



BJ51127-BS2	LCS	10/22/15
BJ51127-BSD1	LCS Dup	10/22/15
BJ51127-BSD2	LCS Dup	10/22/15

Batch ID: BJ51131 **Preparation Method:** EPA 3510C **Prepared By:** KAT

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/22/15
15J0792-02	MW02_102015	10/22/15
15J0792-03	MW01_102015	10/22/15
15J0792-04	MW04_102015	10/22/15
15J0792-05	GWDUP01_102015	10/22/15
15J0792-06	GWFB01_102015	10/22/15
BJ51131-BLK1	Blank	10/22/15
BJ51131-BS1	LCS	10/22/15
BJ51131-BS2	LCS	10/22/15
BJ51131-BSD1	LCS Dup	10/22/15

Batch ID: BJ51143 **Preparation Method:** Analysis Preparation **Prepared By:** PAM

YORK Sample ID	Client Sample ID	Preparation Date
15J0792-01	MW03_102015	10/22/15
15J0792-02	MW02_102015	10/22/15
15J0792-03	MW01_102015	10/22/15
15J0792-04	MW04_102015	10/22/15
15J0792-05	GWDUP01_102015	10/22/15
15J0792-06	GWFB01_102015	10/22/15



Volatile Organic Compounds by GC/MS - 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 BJ51104 - EPA 5030B

Blank (BJ51104-BLK1)

Prepared & Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	80	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	2.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								



Volatile Organic Compounds by GC/MS - 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 BJ51104 - EPA 5030B

Blank (BJ51104-BLK1)

Prepared & Analyzed: 10/21/2015

n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
<hr/>											
Surrogate: 1,2-Dichloroethane-d4	9.42		"	10.0		94.2	69-130				
Surrogate: Toluene-d8	10.1		"	10.0		101	81-117				
Surrogate: p-Bromofluorobenzene	11.9		"	10.0		119	79-122				

LCS (BJ51104-BS1)

Prepared & Analyzed: 10/21/2015

1,1,1,2-Tetrachloroethane	10		ug/L	10.0		102	82-126				
1,1,1-Trichloroethane	11		"	10.0		107	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		108	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		102	54-165				
1,1,2-Trichloroethane	10		"	10.0		102	82-123				
1,1-Dichloroethane	11		"	10.0		106	82-129				
1,1-Dichloroethylene	10		"	10.0		105	68-138				
1,2,3-Trichlorobenzene	8.0		"	10.0		80.4	76-136				
1,2,3-Trichloropropane	10		"	10.0		104	77-128				
1,2,4-Trichlorobenzene	9.3		"	10.0		92.9	76-137				
1,2,4-Trimethylbenzene	13		"	10.0		126	82-132				
1,2-Dibromo-3-chloropropane	9.5		"	10.0		95.4	45-147				
1,2-Dibromoethane	9.8		"	10.0		97.8	83-124				
1,2-Dichlorobenzene	11		"	10.0		106	79-123				
1,2-Dichloroethane	10		"	10.0		104	73-132				
1,2-Dichloropropane	10		"	10.0		102	78-126				
1,3,5-Trimethylbenzene	12		"	10.0		124	80-131				
1,3-Dichlorobenzene	11		"	10.0		110	86-122				
1,4-Dichlorobenzene	11		"	10.0		113	85-124				
1,4-Dioxane	380		"	200		191	10-349				
2-Butanone	8.6		"	10.0		86.2	49-152				
2-Hexanone	10		"	10.0		100	51-146				
4-Methyl-2-pentanone	6.0		"	10.0		59.5	57-145				
Acetone	8.6		"	10.0		85.6	14-150				
Acrolein	8.2		"	10.0		82.1	10-153				
Acrylonitrile	9.0		"	10.0		89.6	51-150				
Benzene	11		"	10.0		106	85-126				
Bromochloromethane	10		"	10.0		104	77-128				
Bromodichloromethane	10		"	10.0		105	79-128				
Bromoform	9.9		"	10.0		98.6	78-133				
Bromomethane	10		"	10.0		103	43-168				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	

Batch BJ51104 - EPA 5030B

LCS (BJ51104-BS1)

Prepared & Analyzed: 10/21/2015

Carbon disulfide	10		ug/L	10.0	100	68-146					
Carbon tetrachloride	11		"	10.0	111	77-141					
Chlorobenzene	11		"	10.0	106	88-120					
Chloroethane	10		"	10.0	101	65-136					
Chloroform	11		"	10.0	107	82-128					
Chloromethane	10		"	10.0	101	43-155					
cis-1,2-Dichloroethylene	11		"	10.0	106	83-129					
cis-1,3-Dichloropropylene	10		"	10.0	102	80-131					
Cyclohexane	11		"	10.0	107	63-149					
Dibromochloromethane	10		"	10.0	101	80-130					
Dibromomethane	10		"	10.0	102	72-134					
Dichlorodifluoromethane	14		"	10.0	142	44-144					
Ethyl Benzene	11		"	10.0	109	80-131					
Hexachlorobutadiene	11		"	10.0	106	67-146					
Isopropylbenzene	13		"	10.0	127	76-140					
Methyl acetate	8.6		"	10.0	85.8	51-139					
Methyl tert-butyl ether (MTBE)	9.9		"	10.0	98.6	76-135					
Methylcyclohexane	11		"	10.0	112	72-143					
Methylene chloride	9.3		"	10.0	92.7	55-137					
n-Butylbenzene	12		"	10.0	121	79-132					
n-Propylbenzene	12		"	10.0	125	78-133					
o-Xylene	11		"	10.0	111	78-130					
p- & m- Xylenes	23		"	20.0	113	77-133					
p-Isopropyltoluene	12		"	10.0	124	81-136					
sec-Butylbenzene	13		"	10.0	126	79-137					
Styrene	11		"	10.0	114	67-132					
tert-Butyl alcohol (TBA)	4.2		"	10.0	42.5	25-162					
tert-Butylbenzene	13		"	10.0	125	77-138					
Tetrachloroethylene	10		"	10.0	104	82-131					
Toluene	11		"	10.0	107	80-127					
trans-1,2-Dichloroethylene	10		"	10.0	100	80-132					
trans-1,3-Dichloropropylene	9.7		"	10.0	96.9	78-131					
Trichloroethylene	11		"	10.0	106	82-128					
Trichlorofluoromethane	11		"	10.0	113	67-139					
Vinyl Chloride	11		"	10.0	110	58-145					
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.34</i>		<i>"</i>	<i>10.0</i>	<i>93.4</i>	<i>69-130</i>					
<i>Surrogate: Toluene-d8</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>	<i>101</i>	<i>81-117</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>11.6</i>		<i>"</i>	<i>10.0</i>	<i>116</i>	<i>79-122</i>					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
Batch BJ51104 - EPA 5030B										
LCS Dup (BJ51104-BSD1)										
Prepared & Analyzed: 10/21/2015										
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		103	82-126		1.76	30
1,1,1-Trichloroethane	10		"	10.0		105	78-136		1.89	30
1,1,2,2-Tetrachloroethane	12		"	10.0		116	76-129		7.25	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.4		"	10.0		93.5	54-165		9.09	30
1,1,2-Trichloroethane	10		"	10.0		102	82-123		0.197	30
1,1-Dichloroethane	10		"	10.0		105	82-129		1.52	30
1,1-Dichloroethylene	10		"	10.0		99.8	68-138		4.70	30
1,2,3-Trichlorobenzene	8.8		"	10.0		87.6	76-136		8.57	30
1,2,3-Trichloropropane	11		"	10.0		112	77-128		7.88	30
1,2,4-Trichlorobenzene	9.9		"	10.0		99.4	76-137		6.76	30
1,2,4-Trimethylbenzene	13		"	10.0		128	82-132		1.58	30
1,2-Dibromo-3-chloropropane	10		"	10.0		104	45-147		9.10	30
1,2-Dibromoethane	10		"	10.0		101	83-124		3.61	30
1,2-Dichlorobenzene	11		"	10.0		112	79-123		6.05	30
1,2-Dichloroethane	10		"	10.0		102	73-132		2.53	30
1,2-Dichloropropane	10		"	10.0		102	78-126		0.980	30
1,3,5-Trimethylbenzene	13		"	10.0		125	80-131		1.20	30
1,3-Dichlorobenzene	12		"	10.0		116	86-122		4.95	30
1,4-Dichlorobenzene	12		"	10.0		119	85-124		5.18	30
1,4-Dioxane	430		"	200		213	10-349		10.5	30
2-Butanone	9.2		"	10.0		91.6	49-152		6.07	30
2-Hexanone	11		"	10.0		106	51-146		5.90	30
4-Methyl-2-pentanone	6.0		"	10.0		60.4	57-145		1.50	30
Acetone	9.0		"	10.0		89.6	14-150		4.57	30
Acrolein	8.4		"	10.0		84.0	10-153		2.29	30
Acrylonitrile	7.8		"	10.0		77.6	51-150		14.4	30
Benzene	10		"	10.0		104	85-126		2.48	30
Bromochloromethane	10		"	10.0		102	77-128		1.75	30
Bromodichloromethane	11		"	10.0		106	79-128		1.52	30
Bromoform	10		"	10.0		105	78-133		5.91	30
Bromomethane	11		"	10.0		107	43-168		4.38	30
Carbon disulfide	9.4		"	10.0		94.3	68-146		6.17	30
Carbon tetrachloride	11		"	10.0		106	77-141		4.32	30
Chlorobenzene	11		"	10.0		107	88-120		0.188	30
Chloroethane	9.8		"	10.0		97.8	65-136		3.32	30
Chloroform	11		"	10.0		106	82-128		1.31	30
Chloromethane	10		"	10.0		100	43-155		0.995	30
cis-1,2-Dichloroethylene	11		"	10.0		106	83-129		0.377	30
cis-1,3-Dichloropropylene	10		"	10.0		104	80-131		1.36	30
Cyclohexane	9.9		"	10.0		99.3	63-149		7.09	30
Dibromochloromethane	10		"	10.0		105	80-130		3.59	30
Dibromomethane	11		"	10.0		105	72-134		3.58	30
Dichlorodifluoromethane	13		"	10.0		126	44-144		11.7	30
Ethyl Benzene	11		"	10.0		109	80-131		0.184	30
Hexachlorobutadiene	11		"	10.0		110	67-146		3.97	30
Isopropylbenzene	13		"	10.0		128	76-140		0.864	30
Methyl acetate	8.5		"	10.0		85.2	51-139		0.702	30
Methyl tert-butyl ether (MTBE)	9.7		"	10.0		97.1	76-135		1.53	30
Methylcyclohexane	10		"	10.0		102	72-143		9.56	30
Methylene chloride	9.2		"	10.0		92.1	55-137		0.649	30
n-Butylbenzene	12		"	10.0		123	79-132		1.88	30



Volatile Organic Compounds by GC/MS - 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 BJ51104 - EPA 5030B

LCS Dup (BJ51104-BSD1)

Prepared & Analyzed: 10/21/2015

n-Propylbenzene	12		ug/L	10.0		125	78-133		0.0802	30	
o-Xylene	11		"	10.0		112	78-130		0.449	30	
p- & m- Xylenes	22		"	20.0		112	77-133		0.222	30	
p-Isopropyltoluene	13		"	10.0		126	81-136		1.44	30	
sec-Butylbenzene	13		"	10.0		126	79-137		0.159	30	
Styrene	11		"	10.0		114	67-132		0.262	30	
tert-Butyl alcohol (TBA)	4.0		"	10.0		40.2	25-162		5.56	30	
tert-Butylbenzene	13		"	10.0		126	77-138		0.636	30	
Tetrachloroethylene	10		"	10.0		103	82-131		1.16	30	
Toluene	11		"	10.0		108	80-127		0.934	30	
trans-1,2-Dichloroethylene	9.7		"	10.0		96.7	80-132		3.36	30	
trans-1,3-Dichloropropylene	10		"	10.0		100	78-131		3.35	30	
Trichloroethylene	11		"	10.0		106	82-128		0.283	30	
Trichlorofluoromethane	10		"	10.0		104	67-139		8.18	30	
Vinyl Chloride	11		"	10.0		106	58-145		3.78	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.14</i>		<i>"</i>	<i>10.0</i>		<i>91.4</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.99</i>		<i>"</i>	<i>10.0</i>		<i>99.9</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>11.6</i>		<i>"</i>	<i>10.0</i>		<i>116</i>	<i>79-122</i>				



Semivolatile Organic Compounds by GC/MS - 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 BJ51131 - EPA 3510C

Blank (BJ51131-BLK1)

Prepared & Analyzed: 10/22/2015

1,1'-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3'-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acenaphthene	ND	0.0500	"								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	20.0	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzoic acid	ND	50.0	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								



Semivolatile Organic Compounds by GC/MS - 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 BJ51131 - EPA 3510C

Blank (BJ51131-BLK1)

Prepared & Analyzed: 10/22/2015

Caprolactam	ND	5.00	ug/L								
Carbazole	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Surrogate: 2-Fluorophenol	58.8		"	75.2		78.2	10-65				
Surrogate: Phenol-d5	64.0		"	75.0		85.4	10-49				
Surrogate: Nitrobenzene-d5	57.6		"	50.2		115	10-96				
Surrogate: 2-Fluorobiphenyl	53.5		"	50.0		107	10-93				
Surrogate: 2,4,6-Tribromophenol	80.5		"	75.2		107	10-128				
Surrogate: Terphenyl-d14	59.9		"	50.2		119	10-100				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ51131 - EPA 3510C											
LCS (BJ51131-BS1)											
Prepared & Analyzed: 10/22/2015											
1,1'-Biphenyl	36.5	5.00	ug/L				21-102				
1,2,4,5-Tetrachlorobenzene	45.6	5.00	"	50.0		91.2	28-105				
1,2,4-Trichlorobenzene	42.4	5.00	"	50.0		84.9	35-91				
1,2-Dichlorobenzene	30.5	5.00	"	50.0		61.1	42-85				
1,2-Diphenylhydrazine (as Azobenzene)	31.7	5.00	"	50.0		63.4	16-137				
1,3-Dichlorobenzene	28.8	5.00	"	50.0		57.6	45-80				
1,4-Dichlorobenzene	29.8	5.00	"	50.0		59.7	42-82				
2,3,4,6-Tetrachlorophenol	33.0	5.00	"	50.0		66.1	30-130				
2,4,5-Trichlorophenol	41.5	5.00	"	50.0		83.0	36-112				
2,4,6-Trichlorophenol	42.3	5.00	"	50.0		84.6	41-107				
2,4-Dichlorophenol	41.8	5.00	"	50.0		83.6	43-92				
2,4-Dimethylphenol	ND	5.00	"	50.0			25-92	Low Bias			
2,4-Dinitrophenol	44.8	5.00	"	50.0		89.5	10-149				
2,4-Dinitrotoluene	41.2	5.00	"	50.0		82.5	41-114				
2,6-Dinitrotoluene	39.0	5.00	"	50.0		77.9	49-106				
2-Chloronaphthalene	36.6	5.00	"	50.0		73.3	40-96				
2-Chlorophenol	28.2	5.00	"	50.0		56.4	35-84				
2-Methylnaphthalene	58.6	5.00	"	50.0		117	33-101	High Bias			
2-Methylphenol	ND	5.00	"	50.0			10-90	Low Bias			
2-Nitroaniline	30.5	5.00	"	50.0		61.0	31-122				
2-Nitrophenol	32.9	5.00	"	50.0		65.8	37-97				
3- & 4-Methylphenols	ND	5.00	"	50.0			10-101	Low Bias			
3,3'-Dichlorobenzidine	19.8	5.00	"	50.0		39.7	25-155				
3-Nitroaniline	ND	5.00	"	50.0			29-128	Low Bias			
4,6-Dinitro-2-methylphenol	43.5	5.00	"	50.0		86.9	10-135				
4-Bromophenyl phenyl ether	36.8	5.00	"	50.0		73.6	38-116				
4-Chloro-3-methylphenol	ND	5.00	"	50.0			28-101	Low Bias			
4-Chloroaniline	12.6	5.00	"	50.0		25.2	10-154				
4-Chlorophenyl phenyl ether	44.3	5.00	"	50.0		88.7	34-112				
4-Nitroaniline	ND	5.00	"	50.0			15-143	Low Bias			
4-Nitrophenol	ND	5.00	"	50.0			10-112	Low Bias			
Acenaphthene	41.0	0.0500	"	50.0		81.9	24-114				
Acenaphthylene	33.8	0.0500	"	50.0		67.7	26-112				
Acetophenone	42.0	5.00	"	50.0		84.1	47-92				
Aniline	17.8	5.00	"	50.0		35.6	10-107				
Anthracene	41.1	0.0500	"	50.0		82.2	35-114				
Atrazine	31.5	0.500	"	50.0		63.0	43-101				
Benzaldehyde	28.4	5.00	"	50.0		56.9	17-117				
Benzo(a)anthracene	35.0	0.0500	"	50.0		70.1	38-127				
Benzo(a)pyrene	40.6	0.0500	"	50.0		81.1	30-146				
Benzo(b)fluoranthene	38.5	0.0500	"	50.0		77.0	36-145				
Benzo(g,h,i)perylene	58.7	0.0500	"	50.0		117	10-163				
Benzo(k)fluoranthene	36.7	0.0500	"	50.0		73.3	16-149				
Benzoic acid	52.6	5.00	"	50.0		105	30-130				
Benzyl alcohol	30.2	5.00	"	50.0		60.5	18-75				
Benzyl butyl phthalate	29.6	5.00	"	50.0		59.2	28-129				
Bis(2-chloroethoxy)methane	34.5	5.00	"	50.0		69.0	27-112				
Bis(2-chloroethyl)ether	28.3	5.00	"	50.0		56.6	24-114				
Bis(2-chloroisopropyl)ether	35.9	5.00	"	50.0		71.7	21-124				
Bis(2-ethylhexyl)phthalate	32.9	0.500	"	50.0		65.9	10-171				
Caprolactam	44.2	5.00	"	50.0		88.4	10-29	High Bias			



Semivolatile Organic Compounds by GC/MS - 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 BJ51131 - EPA 3510C

LCS (BJ51131-BS1)

Prepared & Analyzed: 10/22/2015

Carbazole	ND	5.00	ug/L	50.0			49-116	Low Bias			
Chrysene	35.8	0.0500	"	50.0		71.5	33-120				
Dibenzo(a,h)anthracene	60.7	0.0500	"	50.0		121	10-149				
Dibenzofuran	40.2	5.00	"	50.0		80.3	42-105				
Diethyl phthalate	38.8	5.00	"	50.0		77.6	38-112				
Dimethyl phthalate	39.4	5.00	"	50.0		78.8	49-106				
Di-n-butyl phthalate	33.0	5.00	"	50.0		66.0	36-110				
Di-n-octyl phthalate	34.6	5.00	"	50.0		69.3	12-149				
Fluoranthene	42.4	0.0500	"	50.0		84.7	33-126				
Fluorene	44.7	0.0500	"	50.0		89.4	28-117				
Hexachlorobenzene	33.8	0.0200	"	50.0		67.6	27-120				
Hexachlorobutadiene	49.3	0.500	"	50.0		98.6	25-106				
Hexachlorocyclopentadiene	32.0	5.00	"	50.0		64.1	10-99				
Hexachloroethane	31.5	0.500	"	50.0		63.0	33-84				
Indeno(1,2,3-cd)pyrene	56.5	0.0500	"	50.0		113	10-150				
Isophorone	36.7	5.00	"	50.0		73.4	29-115				
Naphthalene	37.6	0.0500	"	50.0		75.2	30-99				
Nitrobenzene	38.9	0.250	"	50.0		77.8	32-113				
N-Nitrosodimethylamine	14.1	0.500	"	50.0		28.2	10-63				
N-nitroso-di-n-propylamine	33.8	5.00	"	50.0		67.7	36-118				
N-Nitrosodiphenylamine	42.0	5.00	"	50.0		84.1	27-145				
Pentachlorophenol	24.7	0.250	"	50.0		49.4	19-127				
Phenanthrene	43.5	0.0500	"	50.0		86.9	31-112				
Phenol	ND	5.00	"	50.0			10-37	Low Bias			
Pyrene	37.4	0.0500	"	50.0		74.8	42-125				
<i>Surrogate: 2-Fluorophenol</i>	<i>56.1</i>		<i>"</i>	<i>75.2</i>		<i>74.5</i>	<i>10-65</i>				
<i>Surrogate: Phenol-d5</i>	<i>65.2</i>		<i>"</i>	<i>75.0</i>		<i>87.0</i>	<i>10-49</i>				
<i>Surrogate: Nitrobenzene-d5</i>	<i>54.5</i>		<i>"</i>	<i>50.2</i>		<i>108</i>	<i>10-96</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>51.2</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>10-93</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>93.5</i>		<i>"</i>	<i>75.2</i>		<i>124</i>	<i>10-128</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>49.0</i>		<i>"</i>	<i>50.2</i>		<i>97.5</i>	<i>10-100</i>				



Semivolatile Organic Compounds by GC/MS - 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 BJ51131 - EPA 3510C

LCS (BJ51131-BS2)

Prepared & Analyzed: 10/22/2015

1,1'-Biphenyl	ND	5.00	ug/L				21-102				
1,2,4,5-Tetrachlorobenzene	ND	5.00	"				28-105				
1,2,4-Trichlorobenzene	ND	5.00	"				35-91				
1,2-Dichlorobenzene	ND	5.00	"				42-85				
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"				16-137				
1,3-Dichlorobenzene	ND	5.00	"				45-80				
1,4-Dichlorobenzene	ND	5.00	"				42-82				
2,3,4,6-Tetrachlorophenol	ND	5.00	"				30-130				
2,4,5-Trichlorophenol	ND	5.00	"				36-112				
2,4,6-Trichlorophenol	ND	5.00	"				41-107				
2,4-Dichlorophenol	ND	5.00	"				43-92				
2,4-Dimethylphenol	ND	5.00	"				25-92				
2,4-Dinitrophenol	ND	5.00	"				10-149				
2,4-Dinitrotoluene	ND	5.00	"				41-114				
2,6-Dinitrotoluene	ND	5.00	"				49-106				
2-Chloronaphthalene	ND	5.00	"				40-96				
2-Chlorophenol	ND	5.00	"				35-84				
2-Methylnaphthalene	ND	5.00	"				33-101				
2-Methylphenol	ND	5.00	"				10-90				
2-Nitroaniline	ND	5.00	"				31-122				
2-Nitrophenol	ND	5.00	"				37-97				
3- & 4-Methylphenols	ND	5.00	"				10-101				
3,3'-Dichlorobenzidine	ND	5.00	"				25-155				
3-Nitroaniline	ND	5.00	"				29-128				
4,6-Dinitro-2-methylphenol	ND	5.00	"				10-135				
4-Bromophenyl phenyl ether	ND	5.00	"				38-116				
4-Chloro-3-methylphenol	ND	5.00	"				28-101				
4-Chloroaniline	ND	5.00	"				10-154				
4-Chlorophenyl phenyl ether	ND	5.00	"				34-112				
4-Nitroaniline	ND	5.00	"				15-143				
4-Nitrophenol	ND	5.00	"				10-112				
Acenaphthene	1.08	0.0500	"	1.00		108	24-114				
Acenaphthylene	1.26	0.0500	"	1.00		126	26-112	High Bias			
Acetophenone	ND	5.00	"				47-92				
Aniline	ND	5.00	"				10-107				
Anthracene	1.06	0.0500	"	1.00		106	35-114				
Atrazine	ND	0.500	"				43-101				
Benzaldehyde	ND	5.00	"				17-117				
Benzo(a)anthracene	0.980	0.0500	"	1.00		98.0	38-127				
Benzo(a)pyrene	1.34	0.0500	"	1.00		134	30-146				
Benzo(b)fluoranthene	1.04	0.0500	"	1.00		104	36-145				
Benzo(g,h,i)perylene	1.06	0.0500	"	1.00		106	10-163				
Benzo(k)fluoranthene	1.44	0.0500	"	1.00		144	16-149				
Benzoic acid	ND	50.0	"				30-130				
Benzyl alcohol	ND	5.00	"				18-75				
Benzyl butyl phthalate	ND	5.00	"				28-129				
Bis(2-chloroethoxy)methane	ND	5.00	"				27-112				
Bis(2-chloroethyl)ether	ND	5.00	"				24-114				
Bis(2-chloroisopropyl)ether	ND	5.00	"				21-124				
Bis(2-ethylhexyl)phthalate	ND	0.500	"				10-171				
Caprolactam	ND	5.00	"				10-29				



Semivolatile Organic Compounds by GC/MS - 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 BJ51131 - EPA 3510C

LCS (BJ51131-BS2)

Prepared & Analyzed: 10/22/2015

Carbazole	ND	5.00	ug/L				49-116				
Chrysene	1.23	0.0500	"	1.00		123	33-120	High Bias			
Dibenzo(a,h)anthracene	1.15	0.0500	"	1.00		115	10-149				
Dibenzofuran	ND	5.00	"				42-105				
Diethyl phthalate	ND	5.00	"				38-112				
Dimethyl phthalate	ND	5.00	"				49-106				
Di-n-butyl phthalate	ND	5.00	"				36-110				
Di-n-octyl phthalate	ND	5.00	"				12-149				
Fluoranthene	1.17	0.0500	"	1.00		117	33-126				
Fluorene	1.15	0.0500	"	1.00		115	28-117				
Hexachlorobenzene	0.0600	0.0200	"				27-120				
Hexachlorobutadiene	ND	0.500	"				25-106				
Hexachlorocyclopentadiene	ND	5.00	"				10-99				
Hexachloroethane	ND	0.500	"				33-84				
Indeno(1,2,3-cd)pyrene	1.14	0.0500	"	1.00		114	10-150				
Isophorone	ND	5.00	"				29-115				
Naphthalene	1.07	0.0500	"	1.00		107	30-99	High Bias			
Nitrobenzene	ND	0.250	"				32-113				
N-Nitrosodimethylamine	ND	0.500	"				10-63				
N-nitroso-di-n-propylamine	ND	5.00	"				36-118				
N-Nitrosodiphenylamine	ND	5.00	"				27-145				
Pentachlorophenol	ND	0.250	"				19-127				
Phenanthrene	1.05	0.0500	"	1.00		105	31-112				
Phenol	ND	5.00	"				10-37				
Pyrene	1.19	0.0500	"	1.00		119	42-125				
Surrogate: 2-Fluorophenol	0.00		"	75.2			10-65				
Surrogate: Phenol-d5	0.00		"	75.0			10-49				
Surrogate: Nitrobenzene-d5	0.00		"	50.2			10-96				
Surrogate: 2-Fluorobiphenyl	0.00		"	50.0			10-93				
Surrogate: 2,4,6-Tribromophenol	0.00		"	75.2			10-128				
Surrogate: Terphenyl-d14	0.00		"	50.2			10-100				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ51131 - EPA 3510C											
LCS Dup (BJ51131-BSD1)											
										Prepared & Analyzed: 10/22/2015	
1,1'-Biphenyl	36.4	5.00	ug/L				21-102		0.219	20	
1,2,4,5-Tetrachlorobenzene	47.4	5.00	"	50.0		94.7	28-105		3.79	20	
1,2,4-Trichlorobenzene	43.8	5.00	"	50.0		87.7	35-91		3.25	20	
1,2-Dichlorobenzene	31.0	5.00	"	50.0		61.9	42-85		1.37	20	
1,2-Diphenylhydrazine (as Azobenzene)	32.6	5.00	"	50.0		65.3	16-137		2.86	20	
1,3-Dichlorobenzene	29.5	5.00	"	50.0		59.0	45-80		2.47	20	
1,4-Dichlorobenzene	30.7	5.00	"	50.0		61.4	42-82		2.84	20	
2,3,4,6-Tetrachlorophenol	33.7	5.00	"	50.0		67.3	30-130		1.83	20	
2,4,5-Trichlorophenol	41.7	5.00	"	50.0		83.4	36-112		0.505	20	
2,4,6-Trichlorophenol	42.6	5.00	"	50.0		85.1	41-107		0.636	20	
2,4-Dichlorophenol	42.4	5.00	"	50.0		84.8	43-92		1.47	20	
2,4-Dimethylphenol	ND	5.00	"	50.0			25-92	Low Bias		20	
2,4-Dinitrophenol	44.6	5.00	"	50.0		89.3	10-149		0.224	20	
2,4-Dinitrotoluene	41.0	5.00	"	50.0		82.0	41-114		0.584	20	
2,6-Dinitrotoluene	39.2	5.00	"	50.0		78.4	49-106		0.589	20	
2-Chloronaphthalene	37.1	5.00	"	50.0		74.2	40-96		1.30	20	
2-Chlorophenol	28.6	5.00	"	50.0		57.2	35-84		1.37	20	
2-Methylnaphthalene	ND	5.00	"	50.0			33-101	Low Bias		20	
2-Methylphenol	38.2	5.00	"	50.0		76.3	10-90			20	
2-Nitroaniline	30.2	5.00	"	50.0		60.3	31-122		1.12	20	
2-Nitrophenol	33.5	5.00	"	50.0		67.0	37-97		1.78	20	
3- & 4-Methylphenols	ND	5.00	"	50.0			10-101	Low Bias		20	
3,3'-Dichlorobenzidine	23.5	5.00	"	50.0		47.0	25-155		17.0	20	
3-Nitroaniline	ND	5.00	"	50.0			29-128	Low Bias		20	
4,6-Dinitro-2-methylphenol	45.3	5.00	"	50.0		90.6	10-135		4.15	20	
4-Bromophenyl phenyl ether	37.8	5.00	"	50.0		75.5	38-116		2.57	20	
4-Chloro-3-methylphenol	ND	5.00	"	50.0			28-101	Low Bias		20	
4-Chloroaniline	13.6	5.00	"	50.0		27.2	10-154		7.55	20	
4-Chlorophenyl phenyl ether	45.6	5.00	"	50.0		91.2	34-112		2.78	20	
4-Nitroaniline	ND	5.00	"	50.0			15-143	Low Bias		20	
4-Nitrophenol	ND	5.00	"	50.0			10-112	Low Bias		20	
Acenaphthene	40.5	0.0500	"	50.0		81.0	24-114		1.13	20	
Acenaphthylene	33.9	0.0500	"	50.0		67.8	26-112		0.177	20	
Acetophenone	43.2	5.00	"	50.0		86.3	47-92		2.63	20	
Aniline	17.9	5.00	"	50.0		35.7	10-107		0.337	20	
Anthracene	42.3	0.0500	"	50.0		84.6	35-114		2.85	20	
Atrazine	33.7	0.500	"	50.0		67.5	43-101		6.90	20	
Benzaldehyde	28.8	5.00	"	50.0		57.6	17-117		1.22	20	
Benzo(a)anthracene	35.6	0.0500	"	50.0		71.1	38-127		1.47	20	
Benzo(a)pyrene	42.3	0.0500	"	50.0		84.7	30-146		4.29	20	
Benzo(b)fluoranthene	39.0	0.0500	"	50.0		78.0	36-145		1.34	20	
Benzo(g,h,i)perylene	59.7	0.0500	"	50.0		119	10-163		1.67	20	
Benzo(k)fluoranthene	37.2	0.0500	"	50.0		74.5	16-149		1.52	20	
Benzoic acid	55.0	5.00	"	50.0		110	30-130		4.51	20	
Benzyl alcohol	32.0	5.00	"	50.0		63.9	18-75		5.53	20	
Benzyl butyl phthalate	30.2	5.00	"	50.0		60.3	28-129		1.91	20	
Bis(2-chloroethoxy)methane	35.2	5.00	"	50.0		70.4	27-112		2.01	20	
Bis(2-chloroethyl)ether	29.0	5.00	"	50.0		58.0	24-114		2.37	20	
Bis(2-chloroisopropyl)ether	35.9	5.00	"	50.0		71.8	21-124		0.167	20	
Bis(2-ethylhexyl)phthalate	33.4	0.500	"	50.0		66.8	10-171		1.45	20	
Caprolactam	41.2	5.00	"	50.0		82.3	10-29	High Bias	7.12	20	



Semivolatile Organic Compounds by GC/MS - 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 BJ51131 - EPA 3510C

LCS Dup (BJ51131-BSD1)

Prepared & Analyzed: 10/22/2015

Carbazole	ND	5.00	ug/L	50.0			49-116	Low Bias		20	
Chrysene	36.2	0.0500	"	50.0		72.4	33-120		1.20	20	
Dibenzo(a,h)anthracene	62.4	0.0500	"	50.0		125	10-149		2.73	20	
Dibenzofuran	40.9	5.00	"	50.0		81.8	42-105		1.83	20	
Diethyl phthalate	39.0	5.00	"	50.0		78.1	38-112		0.668	20	
Dimethyl phthalate	39.4	5.00	"	50.0		78.8	49-106		0.00	20	
Di-n-butyl phthalate	34.0	5.00	"	50.0		68.1	36-110		3.19	20	
Di-n-octyl phthalate	35.4	5.00	"	50.0		70.9	12-149		2.28	20	
Fluoranthene	43.5	0.0500	"	50.0		87.0	33-126		2.66	20	
Fluorene	44.6	0.0500	"	50.0		89.2	28-117		0.314	20	
Hexachlorobenzene	35.2	0.0200	"	50.0		70.4	27-120		4.00	20	
Hexachlorobutadiene	49.7	0.500	"	50.0		99.3	25-106		0.727	20	
Hexachlorocyclopentadiene	33.6	5.00	"	50.0		67.3	10-99		4.87	20	
Hexachloroethane	32.8	0.500	"	50.0		65.7	33-84		4.10	20	
Indeno(1,2,3-cd)pyrene	57.2	0.0500	"	50.0		114	10-150		1.14	20	
Isophorone	37.5	5.00	"	50.0		75.0	29-115		2.18	20	
Naphthalene	38.7	0.0500	"	50.0		77.3	30-99		2.73	20	
Nitrobenzene	39.6	0.250	"	50.0		79.2	32-113		1.76	20	
N-Nitrosodimethylamine	21.8	0.500	"	50.0		43.7	10-63		43.0	20	Non-dir.
N-nitroso-di-n-propylamine	34.2	5.00	"	50.0		68.4	36-118		1.03	20	
N-Nitrosodiphenylamine	43.8	5.00	"	50.0		87.7	27-145		4.15	20	
Pentachlorophenol	26.7	0.250	"	50.0		53.4	19-127		7.74	20	
Phenanthrene	44.7	0.0500	"	50.0		89.5	31-112		2.88	20	
Phenol	ND	5.00	"	50.0			10-37	Low Bias		20	
Pyrene	37.9	0.0500	"	50.0		75.7	42-125		1.22	20	
Surrogate: 2-Fluorophenol	58.3		"	75.2		77.5	10-65				
Surrogate: Phenol-d5	67.8		"	75.0		90.3	10-49				
Surrogate: Nitrobenzene-d5	55.8		"	50.2		111	10-96				
Surrogate: 2-Fluorobiphenyl	53.0		"	50.0		106	10-93				
Surrogate: 2,4,6-Tribromophenol	96.8		"	75.2		129	10-128				
Surrogate: Terphenyl-d14	50.2		"	50.2		100	10-100				



Organochlorine Pesticides by GC/ECD - 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 BJ51053 - EPA SW846-3510C Low Level

Blank (BJ51053-BLK1)

Prepared & Analyzed: 10/21/2015

4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
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Surrogate: Tetrachloro-m-xylene	0.147		"	0.201		72.9	30-120				
Surrogate: Decachlorobiphenyl	0.122		"	0.207		58.7	30-120				

LCS (BJ51053-BS1)

Prepared & Analyzed: 10/21/2015

4,4'-DDD	0.0754	0.00400	ug/L	0.100		75.4	40-120				
4,4'-DDE	0.0658	0.00400	"	0.100		65.8	40-120				
4,4'-DDT	0.0672	0.00400	"	0.100		67.2	40-120				
Aldrin	0.0764	0.00400	"	0.100		76.4	40-120				
alpha-BHC	0.0793	0.00400	"	0.100		79.3	40-120				
beta-BHC	0.0732	0.00400	"	0.100		73.2	40-120				
delta-BHC	0.0675	0.00400	"	0.100		67.5	40-120				
Dieldrin	0.0760	0.00200	"	0.100		76.0	40-120				
Endosulfan I	0.0723	0.00400	"	0.100		72.3	40-120				
Endosulfan II	0.0708	0.00400	"	0.100		70.8	40-120				
Endosulfan sulfate	0.0664	0.00400	"	0.100		66.4	40-120				
Endrin	0.0820	0.00400	"	0.100		82.0	40-120				
Endrin aldehyde	0.0665	0.0100	"	0.100		66.5	40-120				
Endrin ketone	0.0706	0.0100	"	0.100		70.6	40-120				
gamma-BHC (Lindane)	0.0766	0.00400	"	0.100		76.6	40-120				
Heptachlor	0.0722	0.00400	"	0.100		72.2	40-120				
Heptachlor epoxide	0.0731	0.00400	"	0.100		73.1	40-120				
Methoxychlor	0.0628	0.00400	"	0.100		62.8	40-120				
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Surrogate: Tetrachloro-m-xylene	0.129		"	0.201		64.1	30-120				
Surrogate: Decachlorobiphenyl	0.115		"	0.207		55.6	30-120				



Organochlorine Pesticides by GC/ECD - 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 BJ51053 - EPA SW846-3510C Low Level

LCS Dup (BJ51053-BSD1)

Prepared & Analyzed: 10/21/2015

4,4'-DDD	0.0778	0.00400	ug/L	0.100		77.8	40-120		3.06	30	
4,4'-DDE	0.0662	0.00400	"	0.100		66.2	40-120	"	0.611	30	
4,4'-DDT	0.0693	0.00400	"	0.100		69.3	40-120	"	2.97	30	
Aldrin	0.0756	0.00400	"	0.100		75.6	40-120	"	1.05	30	
alpha-BHC	0.0816	0.00400	"	0.100		81.6	40-120	"	2.86	30	
beta-BHC	0.0709	0.00400	"	0.100		70.9	40-120	"	3.22	30	
delta-BHC	0.0673	0.00400	"	0.100		67.3	40-120	"	0.288	30	
Dieldrin	0.0740	0.00200	"	0.100		74.0	40-120	"	2.75	30	
Endosulfan I	0.0706	0.00400	"	0.100		70.6	40-120	"	2.39	30	
Endosulfan II	0.0705	0.00400	"	0.100		70.5	40-120	"	0.464	30	
Endosulfan sulfate	0.0680	0.00400	"	0.100		68.0	40-120	"	2.41	30	
Endrin	0.0804	0.00400	"	0.100		80.4	40-120	"	1.92	30	
Endrin aldehyde	0.0681	0.0100	"	0.100		68.1	40-120	"	2.38	30	
Endrin ketone	0.0740	0.0100	"	0.100		74.0	40-120	"	4.71	30	
gamma-BHC (Lindane)	0.0775	0.00400	"	0.100		77.5	40-120	"	1.25	30	
Heptachlor	0.0724	0.00400	"	0.100		72.4	40-120	"	0.348	30	
Heptachlor epoxide	0.0716	0.00400	"	0.100		71.6	40-120	"	2.06	30	
Methoxychlor	0.0673	0.00400	"	0.100		67.3	40-120	"	6.92	30	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.133</i>		<i>"</i>	<i>0.201</i>		<i>66.0</i>	<i>30-120</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.117</i>		<i>"</i>	<i>0.207</i>		<i>56.7</i>	<i>30-120</i>				

Batch BJ51127 - EPA SW846-3510C Low Level

Blank (BJ51127-BLK1)

Prepared & Analyzed: 10/22/2015

4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0400	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.175</i>		<i>"</i>	<i>0.201</i>		<i>86.9</i>	<i>30-120</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.155</i>		<i>"</i>	<i>0.207</i>		<i>74.9</i>	<i>30-120</i>				



Organochlorine Pesticides by GC/ECD - 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 BJ51127 - EPA SW846-3510C Low Level

LCS (BJ51127-BS1)

Prepared & Analyzed: 10/22/2015

4,4'-DDD	0.134	0.00400	ug/L	0.100		134	40-120	High Bias			
4,4'-DDE	0.101	0.00400	"	0.100		101	40-120				
4,4'-DDT	0.111	0.00400	"	0.100		111	40-120				
Aldrin	0.113	0.00400	"	0.100		113	40-120				
alpha-BHC	0.120	0.00400	"	0.100		120	40-120				
beta-BHC	0.114	0.00400	"	0.100		114	40-120				
delta-BHC	0.106	0.00400	"	0.100		106	40-120				
Dieldrin	0.114	0.00200	"	0.100		114	40-120				
Endosulfan I	0.109	0.00400	"	0.100		109	40-120				
Endosulfan II	0.110	0.00400	"	0.100		110	40-120				
Endosulfan sulfate	0.105	0.00400	"	0.100		105	40-120				
Endrin	0.122	0.00400	"	0.100		122	40-120	High Bias			
Endrin aldehyde	0.104	0.0100	"	0.100		104	40-120				
Endrin ketone	0.111	0.0100	"	0.100		111	40-120				
gamma-BHC (Lindane)	0.117	0.00400	"	0.100		117	40-120				
Heptachlor	0.110	0.00400	"	0.100		110	40-120				
Heptachlor epoxide	0.109	0.00400	"	0.100		109	40-120				
Methoxychlor	0.110	0.00400	"	0.100		110	40-120				
Surrogate: Tetrachloro-m-xylene	0.186		"	0.201		92.4	30-120				
Surrogate: Decachlorobiphenyl	0.167		"	0.207		80.5	30-120				

LCS Dup (BJ51127-BSD1)

Prepared & Analyzed: 10/22/2015

4,4'-DDD	0.119	0.00400	ug/L	0.100		119	40-120		12.2	30	
4,4'-DDE	0.0926	0.00400	"	0.100		92.6	40-120		9.00	30	
4,4'-DDT	0.0986	0.00400	"	0.100		98.6	40-120		12.0	30	
Aldrin	0.104	0.00400	"	0.100		104	40-120		7.88	30	
alpha-BHC	0.110	0.00400	"	0.100		110	40-120		9.13	30	
beta-BHC	0.105	0.00400	"	0.100		105	40-120		7.92	30	
delta-BHC	0.0978	0.00400	"	0.100		97.8	40-120		8.50	30	
Dieldrin	0.105	0.00200	"	0.100		105	40-120		8.03	30	
Endosulfan I	0.100	0.00400	"	0.100		100	40-120		8.55	30	
Endosulfan II	0.101	0.00400	"	0.100		101	40-120		9.16	30	
Endosulfan sulfate	0.0937	0.00400	"	0.100		93.7	40-120		11.0	30	
Endrin	0.112	0.00400	"	0.100		112	40-120		8.25	30	
Endrin aldehyde	0.0964	0.0100	"	0.100		96.4	40-120		8.05	30	
Endrin ketone	0.100	0.0100	"	0.100		100	40-120		9.99	30	
gamma-BHC (Lindane)	0.107	0.00400	"	0.100		107	40-120		9.34	30	
Heptachlor	0.103	0.00400	"	0.100		103	40-120		7.09	30	
Heptachlor epoxide	0.101	0.00400	"	0.100		101	40-120		7.54	30	
Methoxychlor	0.0931	0.00400	"	0.100		93.1	40-120		16.7	30	
Surrogate: Tetrachloro-m-xylene	0.164		"	0.201		81.4	30-120				
Surrogate: Decachlorobiphenyl	0.130		"	0.207		62.8	30-120				



Polychlorinated Biphenyls by GC/ECD - 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 BJ51053 - EPA SW846-3510C Low Level

Blank (BJ51053-BLK1)

Prepared & Analyzed: 10/21/2015

Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								

Surrogate: Tetrachloro-m-xylene

0.153

"

0.201

76.1

30-120

Surrogate: Decachlorobiphenyl

0.101

"

0.207

48.8

30-120

LCS (BJ51053-BS2)

Prepared & Analyzed: 10/21/2015

Aroclor 1016	0.686	0.0500	ug/L	1.00		68.6	40-120				
Aroclor 1260	0.729	0.0500	"	1.00		72.9	40-120				

Surrogate: Tetrachloro-m-xylene

0.161

"

0.201

80.1

30-120

Surrogate: Decachlorobiphenyl

0.122

"

0.207

58.9

30-120

LCS Dup (BJ51053-BSD2)

Prepared & Analyzed: 10/21/2015

Aroclor 1016	0.742	0.0500	ug/L	1.00		74.2	40-120	7.79	30		
Aroclor 1260	0.762	0.0500	"	1.00		76.2	40-120	4.43	30		

Surrogate: Tetrachloro-m-xylene

0.172

"

0.201

85.6

30-120

Surrogate: Decachlorobiphenyl

0.119

"

0.207

57.5

30-120

Batch BJ51127 - EPA SW846-3510C Low Level

Blank (BJ51127-BLK1)

Prepared & Analyzed: 10/22/2015

Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								

Surrogate: Tetrachloro-m-xylene

0.170

"

0.201

84.6

30-120

Surrogate: Decachlorobiphenyl

0.123

"

0.207

59.4

30-120



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BJ51127 - EPA SW846-3510C Low Level

LCS (BJ51127-BS2)

Prepared & Analyzed: 10/22/2015

Aroclor 1016	0.782	0.0500	ug/L	1.00		78.2	40-120				
Aroclor 1260	0.839	0.0500	"	1.00		83.9	40-120				
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.191</i>		"	<i>0.201</i>		<i>95.0</i>	<i>30-120</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.146</i>		"	<i>0.207</i>		<i>70.5</i>	<i>30-120</i>				

LCS Dup (BJ51127-BSD2)

Prepared & Analyzed: 10/22/2015

Aroclor 1016	0.784	0.0500	ug/L	1.00		78.4	40-120		0.307	30	
Aroclor 1260	0.835	0.0500	"	1.00		83.5	40-120		0.478	30	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.183</i>		"	<i>0.201</i>		<i>91.0</i>	<i>30-120</i>				
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.142</i>		"	<i>0.207</i>		<i>68.6</i>	<i>30-120</i>				



Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ51067 - EPA 3535A											
Blank (BJ51067-BLK1)										Prepared & Analyzed: 10/21/2015	
2,4,5-T	ND	5.00	ug/L								
2,4,5-TP (Silvex)	ND	5.00	"								
2,4-D	ND	5.00	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	114		"	125		91.2	30-150				
LCS (BJ51067-BS1)										Prepared & Analyzed: 10/21/2015	
2,4,5-T	27.8	5.00	ug/L	40.0		69.4	40-140				
2,4,5-TP (Silvex)	28.5	5.00	"	40.0		71.2	40-140				
2,4-D	29.2	5.00	"	40.0		73.1	40-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	117		"	125		93.4	30-150				
LCS Dup (BJ51067-BSD1)										Prepared & Analyzed: 10/21/2015	
2,4,5-T	21.2	5.00	ug/L	40.0		53.1	40-140		26.5	30	
2,4,5-TP (Silvex)	21.5	5.00	"	40.0		53.8	40-140		28.0	30	
2,4-D	23.8	5.00	"	40.0		59.4	40-140		20.8	30	
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	91.2		"	125		73.0	30-150				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BJ51095 - EPA 3015A

Blank (BJ51095-BLK1)

Prepared: 10/21/2015 Analyzed: 10/22/2015

Aluminum	ND	0.0500	mg/L
Barium	ND	0.0100	"
Calcium	ND	0.0500	"
Chromium	ND	0.00500	"
Copper	ND	0.00300	"
Iron	ND	0.0200	"
Lead	ND	0.00300	"
Magnesium	ND	0.0500	"
Manganese	ND	0.00500	"
Nickel	ND	0.00500	"
Potassium	ND	0.0500	"
Selenium	ND	0.0100	"
Silver	ND	0.00500	"
Sodium	ND	0.100	"
Vanadium	ND	0.0100	"
Zinc	ND	0.0100	"

Reference (BJ51095-SRM1)

Prepared: 10/21/2015 Analyzed: 10/22/2015

Aluminum	1.33	ug/mL	1.28	104	82.2-115.7
Barium	0.488	"	0.480	102	85-115
Calcium	99.6	"	107	93.1	86-114
Chromium	0.396	"	0.400	98.9	85-115
Copper	0.821	"	0.760	108	85-115
Iron	2.11	"	2.12	99.7	85-115
Lead	0.697	"	0.700	99.6	85-115
Magnesium	18.0	"	17.9	100	86-114
Manganese	1.44	"	1.46	98.4	85-115
Nickel	1.84	"	1.86	99.2	88.6-112
Potassium	27.9	"	29.1	95.9	84.9-115
Selenium	0.454	"	0.460	98.8	85-115
Silver	0.570	"	0.600	95.0	85-115
Sodium	93.9	"	99.8	94.1	85-115
Vanadium	1.15	"	1.12	103	85-115
Zinc	0.556	"	0.560	99.3	85-115



Metals by ICP - 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 BJ51096 - EPA 3015A

Blank (BJ51096-BLK1)

Prepared & Analyzed: 10/21/2015

Aluminum - Dissolved	ND	0.0500	mg/L								
Barium - Dissolved	ND	0.0100	"								
Calcium - Dissolved	ND	0.0500	"								
Chromium - Dissolved	ND	0.00500	"								
Copper - Dissolved	ND	0.00300	"								
Iron - Dissolved	ND	0.0200	"								
Lead - Dissolved	ND	0.00300	"								
Magnesium - Dissolved	ND	0.0500	"								
Manganese - Dissolved	ND	0.00500	"								
Nickel - Dissolved	ND	0.00500	"								
Potassium - Dissolved	ND	0.0500	"								
Selenium - Dissolved	ND	0.0100	"								
Silver - Dissolved	ND	0.00500	"								
Sodium - Dissolved	ND	0.100	"								
Vanadium - Dissolved	ND	0.0100	"								
Zinc - Dissolved	ND	0.0100	"								

Reference (BJ51096-SRM1)

Prepared & Analyzed: 10/21/2015

Aluminum - Dissolved	1.37		ug/mL	1.28	107	82.2-115.7					
Barium - Dissolved	0.480		"	0.480	100	85-115					
Calcium - Dissolved	99.9		"	107	93.4	86-114					
Chromium - Dissolved	0.389		"	0.400	97.1	85-115					
Copper - Dissolved	0.805		"	0.760	106	85-115					
Iron - Dissolved	2.19		"	2.12	103	85-115					
Lead - Dissolved	0.684		"	0.700	97.7	85-115					
Magnesium - Dissolved	18.5		"	17.9	104	86-114					
Manganese - Dissolved	1.44		"	1.46	98.3	85-115					
Nickel - Dissolved	1.80		"	1.86	97.0	88.6-112					
Potassium - Dissolved	28.0		"	29.1	96.1	84.9-115					
Selenium - Dissolved	0.440		"	0.460	95.6	85-115					
Silver - Dissolved	0.559		"	0.600	93.1	85-115					
Sodium - Dissolved	94.0		"	99.8	94.2	85-115					
Vanadium - Dissolved	1.13		"	1.12	101	85-115					
Zinc - Dissolved	0.552		"	0.560	98.6	85-115					



Metals by ICP/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Level					Result			

Batch BJ51097 - EPA 3015A

Blank (BJ51097-BLK1)

Prepared & Analyzed: 10/21/2015

Antimony - Dissolved	ND	1.00	ug/L										
Arsenic - Dissolved	ND	1.00	"										
Beryllium - Dissolved	ND	0.100	"										
Cadmium - Dissolved	ND	0.500	"										
Molybdenum - Dissolved	ND	1.00	"										
Thallium - Dissolved	ND	1.00	"										

Duplicate (BJ51097-DUP1)

*Source sample: 15J0792-01 (MW03_102015)

Prepared & Analyzed: 10/21/2015

Antimony - Dissolved	ND	2.00	ug/L		ND								20
Arsenic - Dissolved	25.0	2.00	"		23.8					5.00			20
Beryllium - Dissolved	ND	0.200	"		ND								20
Cadmium - Dissolved	ND	1.00	"		ND								20
Molybdenum - Dissolved	ND	2.00	"		2.04								20
Thallium - Dissolved	ND	2.00	"		ND								20

Matrix Spike (BJ51097-MS1)

*Source sample: 15J0792-01 (MW03_102015)

Prepared & Analyzed: 10/21/2015

Antimony - Dissolved	208	2.00	ug/L	200	ND	104	75-125						
Arsenic - Dissolved	124	2.00	"	100	23.8	101	75-125						
Beryllium - Dissolved	47.2	0.200	"	50.0	ND	94.4	75-125						
Cadmium - Dissolved	47.5	1.00	"	50.0	ND	95.0	75-125						
Molybdenum - Dissolved	111	2.00	"	100	2.04	109	75-125						
Thallium - Dissolved	53.4	2.00	"	50.0	ND	107	75-125						

Reference (BJ51097-SRM1)

Prepared & Analyzed: 10/21/2015

Antimony - Dissolved	19.6	1.00	ug/L	19.2		102	69.8-130						
Arsenic - Dissolved	40.9	1.00	"	39.0		105	70-130						
Beryllium - Dissolved	19.6	0.100	"	19.3		102	85-115						
Cadmium - Dissolved	17.0	0.500	"	16.9		101	79.9-120						
Molybdenum - Dissolved	94.9	1.00	"	96.5		98.3	85-115						
Thallium - Dissolved	10.2	1.00	"	8.79		116	70-130						



Metals by ICP/MS - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

Batch BJ51099 - EPA 3015A

Blank (BJ51099-BLK1)

Prepared & Analyzed: 10/21/2015

Antimony	ND	1.00	ug/L								
Arsenic	ND	1.00	"								
Beryllium	ND	0.300	"								
Cadmium	ND	0.500	"								
Molybdenum	ND	1.00	"								
Thallium	ND	1.00	"								

Duplicate (BJ51099-DUP1)

*Source sample: 15J0792-01 (MW03_102015)

Prepared & Analyzed: 10/21/2015

Antimony	ND	2.00	ug/L		ND						20
Arsenic	22.8	2.00	"		23.3					2.08	20
Beryllium	ND	0.600	"		ND						20
Cadmium	ND	1.00	"		ND						20
Molybdenum	2.20	2.00	"		2.30					4.44	20
Thallium	ND	2.00	"		ND						20

Matrix Spike (BJ51099-MS1)

*Source sample: 15J0792-01 (MW03_102015)

Prepared & Analyzed: 10/21/2015

Antimony	209	2.00	ug/L	200	ND	104	75-125				
Arsenic	124	2.00	"	100	23.3	100	75-125				
Beryllium	44.2	0.600	"	50.0	ND	88.4	75-125				
Cadmium	47.2	1.00	"	50.0	ND	94.4	75-125				
Molybdenum	112	2.00	"	100	2.30	110	75-125				
Thallium	51.8	2.00	"	50.0	ND	104	75-125				

Reference (BJ51099-SRM1)

Prepared & Analyzed: 10/21/2015

Antimony	19.8	1.00	ug/L	19.2		103	69.8-130				
Arsenic	40.4	1.00	"	39.0		104	70-130				
Beryllium	18.8	0.300	"	19.3		97.4	85-115				
Cadmium	17.1	0.500	"	16.9		101	79.9-120				
Molybdenum	96.2	1.00	"	96.5		99.7	85-115				
Thallium	10.4	1.00	"	8.79		118	70-130				



Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	Flag	RPD	RPD	Limit	Flag
		Limit		Level	Result	Limits		Limit			

Batch BJ51079 - EPA 7473 water

Blank (BJ51079-BLK1)

Prepared: 10/21/2015 Analyzed: 10/22/2015

Mercury	ND	0.00020	mg/L								
Mercury - Dissolved	ND	0.00020	"								

Reference (BJ51079-SRM1)

Prepared: 10/21/2015 Analyzed: 10/22/2015

Mercury	0.00174		mg/kg	0.00230		75.7	61.3-135				
Mercury - Dissolved	0.0017415		mg/L	0.00230		75.7	61.3-135				



Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ51040 - Analysis Preparation											
Blank (BJ51040-BLK1)											Prepared & Analyzed: 10/20/2015
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BJ51040-BS1)											Prepared & Analyzed: 10/20/2015
Chromium, Hexavalent	0.445	0.0100	mg/L	0.500		89.0	80-120				
Duplicate (BJ51040-DUP1)											Prepared & Analyzed: 10/20/2015
*Source sample: 15J0792-06 (GWFB01_102015)											
Chromium, Hexavalent	ND	0.0100	mg/L		ND						20
Matrix Spike (BJ51040-MS1)											Prepared & Analyzed: 10/20/2015
*Source sample: 15J0792-06 (GWFB01_102015)											
Chromium, Hexavalent	0.426	0.0100	mg/L	0.500	ND	85.2	75-125				
Batch BJ51056 - Analysis Preparation											
Blank (BJ51056-BLK1)											Prepared & Analyzed: 10/21/2015
Cyanide, total	ND	0.0100	mg/L								
LCS (BJ51056-BS1)											Prepared & Analyzed: 10/21/2015
Cyanide, total	0.166	0.0100	mg/L	0.200		83.0	76.2-107				
Duplicate (BJ51056-DUP1)											Prepared & Analyzed: 10/21/2015
*Source sample: 15J0792-01 (MW03_102015)											
Cyanide, total	ND	0.0100	mg/L		ND						15
Matrix Spike (BJ51056-MS1)											Prepared & Analyzed: 10/21/2015
*Source sample: 15J0792-01 (MW03_102015)											
Cyanide, total	0.154	0.0100	mg/L	0.200	ND	77.0	79-105	Low Bias			



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
15J0792-01	MW03_102015	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15J0792-02	MW02_102015	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15J0792-03	MW01_102015	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15J0792-04	MW04_102015	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15J0792-05	GWDUP01_102015	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15J0792-06	GWFB01_102015	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15J0792-07	TRIPBLANK	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Notes and Definitions

S-DUP	Duplicate analysis confirmed surrogate failure due to matrix effects.
SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
S-01	The surrogate recovery for this sample may not be available due to sample dilution required from high analyte concentration and/or matrix interferences.
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/LOD) or in the case of a TIC, the result is an estimated concentration.
GC-Surr	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the alternate surrogate.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
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 LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: Field duplicate ID revised per Rebecca Tisherman email instructions. Lab turnaround revised on 10/21/15 to rush per Patrick Farnham.



YORK
ANALYTICAL LABORATORIES INC

YORK ANALYTICAL LABORATORIES
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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. 15J0792

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <u>Langan</u>		Company: <u>SAME</u>		Company: <u>SAME</u>		<u>170370001</u>		RUSH - Same Day <input type="checkbox"/>		Summary Report _____	
Address: <u>360 W 31st St</u>		Address: _____		Address: _____		Purchase Order No. _____		RUSH - Next Day <input type="checkbox"/>		Summary w/ QA Summary _____	
Phone No. <u>212-479-5700</u>		Phone No. _____		Phone No. _____		Standard(5-7 Days) <input checked="" type="checkbox"/>		RUSH - Two Day <input type="checkbox"/>		CT RCP Package _____	
Contact Person: <u>P. Farnham</u>		Attention: <u>F. Nicholls</u>		Attention: _____		Samples from: CT <input type="checkbox"/> NY <input checked="" type="checkbox"/> NJ <input type="checkbox"/>		RUSH - Three Day <input type="checkbox"/>		CT RCP DQA/DUE Pkg _____	
E-Mail Address: <u>pfarnham@langan.com</u>		E-Mail Address: <u>gnicholls@langan.com</u>		E-Mail Address: _____				RUSH - Four Day <input type="checkbox"/>		NY ASP A Package <input checked="" type="checkbox"/>	
										NY ASP B Package _____	
										NJDEP Red. Deliv. _____	

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)

Rebecca Tisherna
Name (printed)

- Matrix Codes
- S - soil
 - Other - specify (oil, etc.)
 - WW - wastewater
 - GW - groundwater
 - DW - drinking water
 - Air-A - ambient air
 - Air-SV - soil vapor

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri. Poll.	Corrosivity
624 Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL MetCN	Ignitability
BTEX Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list TCLP list	CT RCP list	SPL or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list 524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No. 10000 Form	BTU/lb.
Arom. only 502.2	NJDEP list	TCLP Herb	SPL or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog. only NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App. IX list SPL or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSEDC Sewer	Asbestos
8021B list	SPL or TCLP	608 PCB		Helium	TAGM	Silica

Electronic Data Deliverables (EDD)

- Simple Excel _____
- NYSDEC EQuIS _____
- EQuIS (std) _____
- EZ-EDD (EQuIS) _____
- NJDEP SRP HazSite EDD _____
- GIS/KEY (std) _____
- Other PDF/Excel _____
- York Regulatory Comparison
- Excel Spreadsheet
- Compare to the following Regs. (please fill in):

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
MW03 - 102015	10/20/15 8:45	GW	TU/TAL VOC, SVOC, pest, herb, metals (total/dissolved), cyanide	tri-neck chem, PCBs
MW02 - 102015	9:45	↓	↓	
MW01 - 102015	11:15	↓	↓	
MW04 - 102015	14:00	↓	↓	
GWFB01 - 102015	11:11	↓	↓	
GWFB01 - 102015	2:00	↓	↓	
FWFB01 - 102015		GW	VOCs	

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Comments

Preservation Check those Applicable Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>	4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other <input type="checkbox"/>	Temperature on Receipt <u>3.7 °C</u>
	Samples Relinquished By <u>RP</u> Date/Time <u>10/20/15 14:20</u>	Samples Received By <u>JC</u> Date/Time <u>10/20/15 2:00</u>
	Samples Relinquished By _____ Date/Time _____	Samples Received in LAB by <u>TC</u> Date/Time <u>10/20/15 18:26</u>